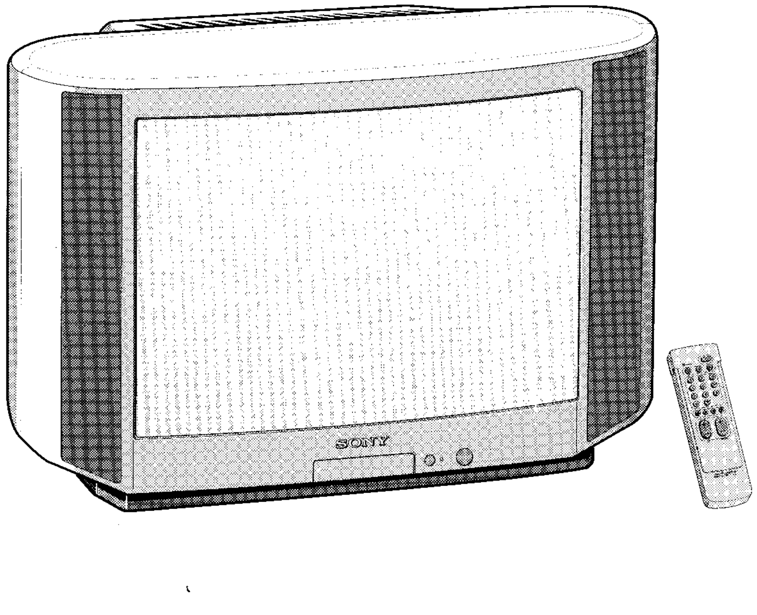
SERVICE MANUAL

BE-3C CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-C2901A	RM-833	Italian	SCC-G81N-A	KV-C2909D	RM-833	AEP	SCC-H62B-A
KV-C2903B	RM-833	French	SCC-G85L-A	KV-C2903E	RM-833	Spanish	SCC-G82M-A
KV-C2908B	RM-833	French	SCC-H61A-A	KV-C2908E	RM-833	Spanish	SCC-H63A-A
KV-C2909B	RM-833	French	SCC-H61B-A	KV-C2909E	RM-833	Spanish	SCC-H63B-A
KV-C2901D	RM-833	AEP	SCC-G77N-A	KV-C2901K	RM-833	OIRT	SCC-H68A-A
KV-C2908D	RM-833	AEP	SCC-H62A-A	KV-C2909K	RM-833	OIRT	SCC-H68B-A



MICROFILM

TRINITRON® COLOR TV

SONY®

ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
AEP	B/G/H, D/K	GERMAN Stereo	PAL B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Italian	B/G/H	GERMAN Stereo	ITALIA VHF:A-H2 PAL B/G VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10	PAL NTSC4.43, NTSC3.58 (VIDEO IN)
French	B/G/H, L, I	GERMAN / Nicam Stereo	L VHF:F02-F10 UHF:F21-F69 CABLE:B-Q S21-S44 B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) I UHF:B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Spanish	B/G/H	GERMAN / Nicam Stereo	PAL B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
OIRT	B/G/H, D/K	GERMAN Stereo	B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2);S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)

MODEL	Italian	French	AEP	Spanish	OIRT
Power Consumption	95W	118Wh	118Wh	119Wh	118Wh

SPECIFICATIONS

Picture Tube	Hi-Black Trinitron Approx. 72 cm (29 inches) (Approx. 68 cm picture measured diagonally) 110° -deflection

Input/Output Terminals

[REAR]

⊖-1 21-pin Euro connector (CENELEC standard)
- inputs for audio and video signals
- inputs for RGB
- outputs of TV video and audio signals

⊖-2/⊖ 2 21-pin Euro connector
- inputs for audio and video signals
- inputs for S video
- outputs for audio and video signals (selectable)

[FRONT]

⊖3 Video input - phono jack

⊖3 Audio inputs - phono jacks

⊖3 S video input 4-pin DIN

Ω Headphone jacks : stereo minijack

Sound output	2 x 15W (Music power)
Dimensions	Approx. 794x567x530 mm
Weight	Approx. 44kg
Supplied accessories	RM-833 Remote Commander (1) IEC designation R6 battery (1)
Other features	NICAM , FASTEXT, TOPTEXT.

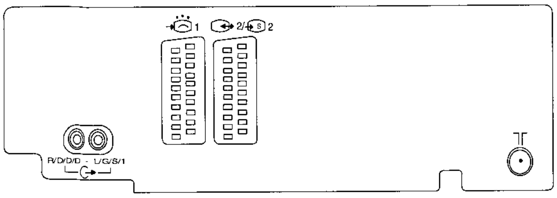
[RM-833]

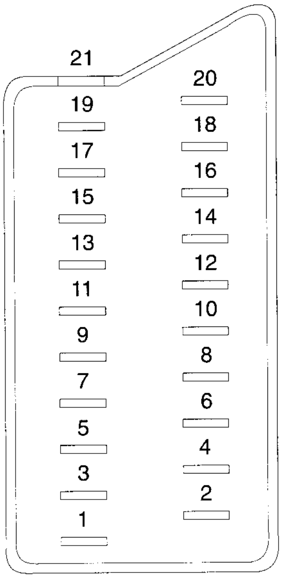
Remote control system	infrared control
Power requirements	1.5V dc 1 battery IEC designation R6 (size AA)
Dimensions	Approx. 65x225x21 mm (w/h/d)
Weight	Approx. 157g (Not including batteries)

Design and specifications are subject to change without notice.

Item \ Model name	KV-C2901A	KV-C2903B KV-C2908B KV-C2909B	KV-C2901D KV-C2908D KV-C2909D	KV-C2903E KV-C2908E KV-C3909E	KV-C2901K KV-C2909K
Pal Comb	OFF	OFF	OFF	OFF	OFF
PIP	OFF	OFF	OFF	OFF	OFF
RGB Priority	ON	ON	OFF	OFF	OFF
Woofer Box	OFF	OFF	OFF	OFF	OFF
Scart 1	ON	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON	ON
Front in (3)	ON	ON	ON	ON	ON
Scart 4	OFF	OFF	OFF	OFF	OFF
Projector	OFF	OFF	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON	ON	ON
Norm B/G/H	ON	ON	ON	ON	ON
Norm I	OFF	ON	OFF	OFF	OFF
Norm D/K	OFF	OFF	ON	OFF	ON
Norm AUS	OFF	OFF	OFF	OFF	OFF
Norm L	OFF	ON	OFF	OFF	OFF
Norm SAT	OFF	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF	OFF
Toptext	ON	ON	ON	ON	ON
Nicam Stereo	OFF	ON	OFF	ON	OFF
Language Preset	Italian	French	German	Spanish	OIRT

21 pin connector (⊖-1 ⊖ 2 / ⊖ 4)

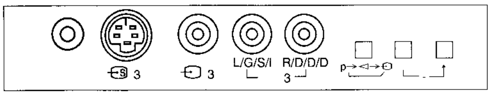




Pin No.	1	2	4	Signal	Signal level
1	○	○	○	Audio output B (right)	Standard level : 0.5V rms Output impedance :Less than 1kohm*
2	○	○	○	Audio input B (right)	Standard level : 0.5V rms Output impedance :More than 10kohm*
3	○	○	○	Audio output A (left)	Standard level : 0.5V rms Output impedance :Less than 1kohm*
4	○	○	○	Ground (audio)	
5	○	○	○	Ground (blue)	
6	○	○	○	Audio input A (left)	Standard level : 0.5V rms Output impedance :More than 10kohm*
7	○	●	●	Blue input	0.7 ± 3dB, 75 ohms, positive
8	○	○	○	Function select (AV control)	High state (9.5 - 12V) : Part mode Low state (0 - 2V) : TV mode Input impedance : More than 10k ohms Input capacitance : Less than 2nF
9	○	○	○	Ground (green)	
10	○	○	○	Open	
11	○	●	●	Green	Green signal : 0.7 ± 3dB, 75 ohms, positive
12	○	○	○	Open	
13	○	○	○	Ground (red)	
14	○	○	○	Ground(blanking)	
15	○	—	—	Red input	0.7 ± 3dB, 75 ohms, positive
	—	○	○	(S signal) croma input	0.3 ± 3dB, 75 ohms, positive
16	○	●	●	Blanking input (Ys signal)	High state (1 - 3V) Low state (0 - 0.4V) Input impedance : 75ohms
17	○	○	○	Ground(video output)	
18	○	○	○	Ground(video input)	
19	○	○	○	Video output	1V ± 3dB,75ohms,positive sync:0.3V(-3+10dB)
20	○	—	—	Video input	1V ± 3dB,75ohms,positive sync:0.3V(-3+10dB)
	—	○	○	Video input Y (S signal)	1V ± 3dB,75ohms,positive sync:0.3V(-3+10dB)
21	○	○	○	Common ground (plug, sheild)	

○ Connected ● Not Connected (open) * at 20Hz - 20kHz

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75 ohm , positive Sync. 0.3V -3/+10 dB
4	C (S signal) input	0.3V ± 3dB 75 ohm , positive Sync.



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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

WARNING !!

AN ISOLATING TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD, DUE TO A LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLIMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÈ LORS DE TOUT DÈPANNAGE. LE CHÁSSIS DE CE RÈCEPTEUR EST DIRECTEMENT RACCORDÈ Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS Á LA SÈCURITÈ !!

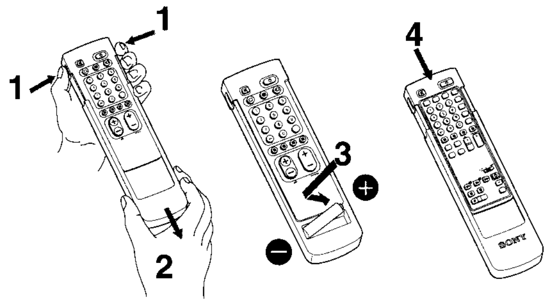
LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHÈMAS DE PRINCIPE, LES VUES EXPLOSÈES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÈCURITÈ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÈRO DE PIÈCE EST INDIQUÈ DANS LE PRÈSENT MANUEL OU DANS DES SUPPLÈMENTS PUBLIÈS PAR SONY.

SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

Getting Started

Inserting the Battery Into the Remote Commander



Remove the cover.

Check the correct polarity.

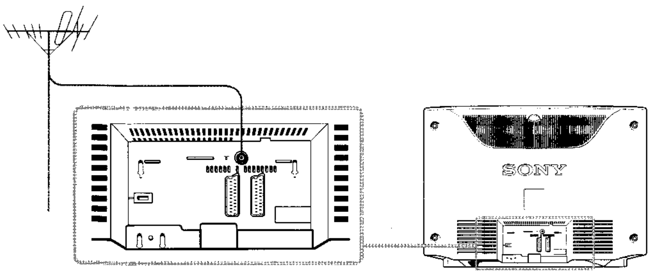
Refit the outside cover making sure that the Full Function side is visible.

About Battery Life

Under normal operation, a battery will last up to half a year.

Connecting the Aerial

Connect aerial to the ⫪ socket at the rear of the TV. (cable not supplied)



Choosing a Language

(See inside of front cover and back cover)

1 **Depress ⏻ [A] on the TV.**
The TV turns on. If the standby indicator [B] on the TV is lit, press ○ [3] or any number button [4] on the Remote Commander.

2 **Press MENU [7] on the Remote Commander.**
The SELECT LANGUAGE screen appears.

MENU

3 **Press one of the colour buttons [17] on the Remote Commander to select a language (Press the white button [17] to display other language alternatives).**
The SELECT LANGUAGE screen clears and all subsequent menus appear in the chosen language.

SELECT LANGUAGE

- ● ENGLISH
- ● DEUTSCH
- ● FRANÇAIS
- ● ESPAÑOL
- ● MORE

SELECT COL. BUTTON

Note: From the second time when you turn on the TV, the MENU screen appears instead of the SELECT LANGUAGE screen. Press the yellow button [17] then press the white button [17] to redisplay the SELECT LANGUAGE screen.

Tuning in to Channels

You can tune in up to 100 channels to programme positions either automatically or manually.

auto tuning:	A single button press allows all receivable channels to be tuned. Use if you are unfamiliar with the channel numbers of stations.
manual tuning:	Use if you are familiar with the channel numbers of stations. (Channel numbers from the main UK transmitters are shown on page 13)

Choose the more appropriate way for you.

Tuning in to Channels Automatically

There are two possibilities for auto tuning;

A. On the TV: hold down ▶▶▢ [E] on the front of the TV for 2 seconds
(All receivable channels are tuned in the order noted below).

or

B. On the Remote Commander: as follows

1 **Press MENU [7].**

2 **Press the white button [17].**

3 **Hold down the red button [17] for 2 seconds,**

Note: Press the green button [17] to cancel.

Channels are automatically stored as follows:

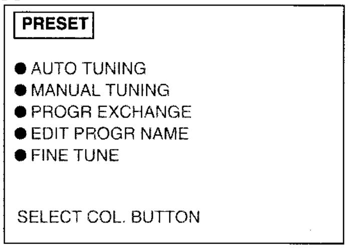
Programme1	BBC1
Programme2	BBC2
Programme3	ITV
Programme4	CH4 or S4C

Note: Programme names are automatically taken from TELETEXT if available. If not, "- - - - -" is placed in the name.
- If you connect a VCR via the aerial cable, set the VCR to its test signal or play mode before auto-tuning.
- You may have to exchange the programme positions, if there are duplicated signals from local transmitters .

Tuning in to Channels Manually

1 **Press MENU [7].**
The MENU screen appears.

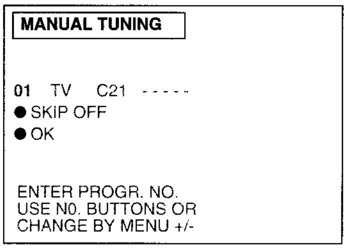
2 **Press the white button [17] to select PRESET.**
The PRESET screen appears.


PRESET

● AUTO TUNING
● MANUAL TUNING
● PROGR EXCHANGE
● EDIT PROGR NAME
● FINE TUNE

SELECT COL. BUTTON

3 **Press the green button [17] to select MANUAL TUNING.**
The MANUAL TUNING screen appears.


MANUAL TUNING

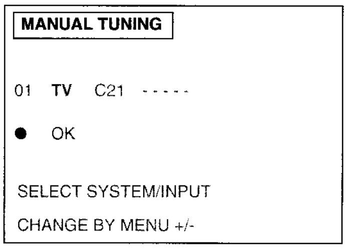
01 TV C21 - - - - -
● SKIP OFF
● OK

ENTER PROGR. NO.
USE NO. BUTTONS OR
CHANGE BY MENU +/-

4 **Press the number buttons [4] or MENU+/- [9] to select a programme position.**
If you use the number buttons [4], enter a double-digit number. (e.g. for programme number 4, first press 0, then 4)

5 **Press the green button [17].**

Note: Use MENU +/- [9] to select "TV". You can alternatively select input sources which may be assigned to programme positions. The display changes as follows:


MANUAL TUNING

01 TV C21 - - - - -

● OK

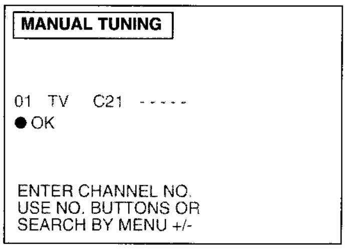
SELECT SYSTEM/INPUT

CHANGE BY MENU +/-

TV ↔ AV1 ↔ RGB ↔ AV2 ↔ YC2 ↔ AV3 ↔ YC3

6 **Press the green button [17].**

Note: If a video input source is selected in step 5, this is now stored. Refer to step 4 to tune other programme positions.


MANUAL TUNING

01 TV C21 - - - - -
● OK

ENTER CHANNEL NO.
USE NO. BUTTONS OR
SEARCH BY MENU +/-

7 **Press the number buttons [4] or MENU+/- [9] to select the channel number.**
If you use the number buttons [4], enter a double-digit number. (e.g. for channel 23, first press 2, then 3)

Note: Programme names are automatically taken from TELETEXT if available. If not, "- - - - -" is placed in the name. Or if you select AV1, RGB, AV2, YC2, AV3 or YC3 as an input source, AV1, RGB, ... is placed.

8 **Press the green button [17] to store.**

Note: If you want to preset other channels, repeat steps 4 to 8.

9 **Press MENU [7] twice to return to the normal screen.**

Note: You can skip unused programme positions when selecting programmes with the PROGR +/- buttons [18]. Press the red button [17] to skip in step 4. However, the skipped programmes may still be called up when you use the number buttons.

Basic TV Operations

Turning the TV on and off

Turning on
Depress ⏻ [A] on the TV.

Turning off temporarily
Press ⏻ [10] on the Remote Commander.
The TV enters standby mode and the standby indicator [B] on the front of the TV lights up.

Turning on again
Press ▭ [3], PROGR+/- [18], or one of the number buttons [4] on the Remote Commander.

Turning off completely
Depress ⏻ [A] on the TV.
Note: It is recommended to use ⏻ [A] to turn off the TV. This could help you save energy.

Selecting TV Programmes

Press PROGR+/- [18] or press number buttons [4].

To select a double-digit number
Press -/-- [5], then the number buttons [4].

Adjusting the Volume

Press ◢+/- [19].

Muting the Sound

Press 🔇 [1].
To resume normal sound, press 🔇 [1] again.

Displaying the On-screen Indications

Press ⊕ [14] once to display the on-screen indications.
Press again to make the indications disappear.
Note: If NICAM is transmitted regardless of whether it is stereo or mono, the two speaker symbol automatically appears on the screen for several seconds.

Operating the TV Using the Buttons on the TV

With the buttons on the TV, you can adjust or select the functions as follows:

Press ◢+/- [D] to adjust the volume.
Press P+/- [C] to select programme numbers or to turn the TV on from the standby mode.
Press ⇥ [F] to select the input source.
Press ⏭ [E] to preset channels automatically.

Advanced TV Operations

Operating the Menu System

You can adjust picture and sound, preset channels to programme positions and utilise other convenient features by using the following menu system.

Press;	to;
1 MENU 7 [MENU]	enter the MENU screen
2 a colour button 17 [■]	select an item you want to change (The selected item is marked by a triangle.)
3 MENU+/– 9 [+] [–]	change (or adjust) the contents of the item
4 MENU 7	return to the MENU screen
5 MENU 7 again	return to the normal screen
Press MENU 7 once or twice whenever you want to return to the normal screen.	

Note: When selecting menus, the picture becomes darker. If, however, an item in the PICTURE ADJUSTMENT menu is selected, normal level of TV picture is restored to allow the best adjustment.

Adjusting the Picture and Sound

Although picture and sound are adjusted at the factory you can adjust them to suit your own taste.

1 **Press MENU 7.**
The MENU screen appears. [MENU]

2 **Press the red button 17 to select PICTURE or the green button 17 to select SOUND.**

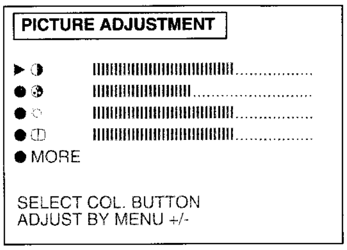
3 **Press the respective colour button 17 to select an item.**

4 **Press MENU +/- 9 to adjust.**

5 **Press MENU 7 twice or wait until the menu displays disappear automatically to return to the normal screen.**

PICTURE ADJUSTMENT

(First Page)



PICTURE ADJUSTMENT

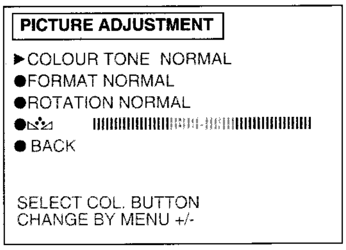
▶◑
●◉
●☼
●ⓓ
● MORE

SELECT COL. BUTTON
ADJUST BY MENU +/-

Press colour button	Effect
Red: For Picture ◑	Less ——I—— More
Green: For Colour ◉	Less ——I—— More
Yellow: For Brightness ☼	Darker ——I—— Brighter
Blue: For Sharpness ⓓ	Softer ——I—— Sharper
White:	Next page of PICTURE ADJUSTMENT

PICTURE ADJUSTMENT

(Second Page)



PICTURE ADJUSTMENT

▶COLOUR TONE NORMAL
●FORMAT NORMAL
●ROTATION NORMAL
●
● BACK

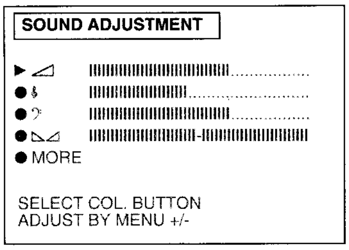
SELECT COL. BUTTON
CHANGE BY MENU +/-

Press colour button	Effect
Red: For Colour Tone	Normal -> Warm (reddish colour tone) -> Cool (blueish colour tone)
Green: For Format	Normal: Normal setting 16:9 Wide screen effect
Yellow: For Picture Rotation (only for KV-C29")	Normal: Normal setting -5 ~ +5: Adjusts the picture slant caused by the earth magnetism
Blue: For Hue control (only for NTSC video signals)	Reddish ——I—— Greenish
White:	Back to first page of PICTURE ADJUSTMENT

Note: Press →•← 8 on the Remote Commander to reset to the factory preset levels for picture and sound.

SOUND ADJUSTMENT

(First Page)


SOUND ADJUSTMENT

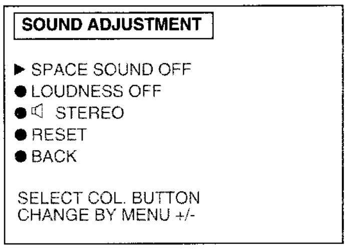
▶ ⊿
● 𝄞
● 𝄢
● ◺⊿
● MORE

SELECT COL. BUTTON
ADJUST BY MENU +/-

Press colour button	Effect
Red: For Volume ⊿	Less ——|—— More
Green: For Treble 𝄞	Less ——|—— More
Yellow: For Bass 𝄢	Less ——|—— More
Blue: For Balance ◺⊿	More left - more right
White:	Next page of SOUND ADJUSTMENT

SOUND ADJUSTMENT

(Second Page)


SOUND ADJUSTMENT

▶ SPACE SOUND OFF
● LOUDNESS OFF
● 🔈 STEREO
● RESET
● BACK

SELECT COL. BUTTON
CHANGE BY MENU +/-

Press colour button	Effect
Red: For Space Sound	OFF: normal sound ON: for a special acoustic sound effect
Green: For Loudness	OFF: normal sounds ON: when listening to music broadcast
Yellow: For Stereo:	Stereo -> Mono A (left channel) - > Mono B (right channel) -> Mono
Blue: For Reset:	Resets to the factory preset levels for picture and sound
White:	Back to first page of SOUND ADJUSTMENT

Note: Press →•← [8] on the Remote Commander to reset to the factory preset levels for picture and sound.

Using Special Features

With your TV you can utilise special features such as Parental Lock or Sleep Timer .

1 **Press MENU [7].**
The MENU screen appears.

MENU

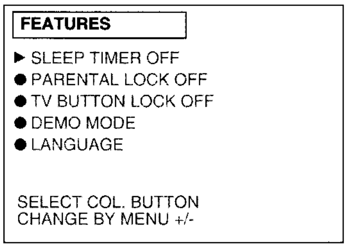
2 **Press the yellow button [17] to select FEATURES.**

3 **Press the respective colour button [17] to select an item.**

4 **Press MENU +/– [9] to change.**

5 **Press MENU [7] twice or wait until the menu displays disappear automatically to return to the normal screen.**

FEATURES


FEATURES

▶ SLEEP TIMER OFF
● PARENTAL LOCK OFF
● TV BUTTON LOCK OFF
● DEMO MODE
● LANGUAGE

SELECT COL. BUTTON
CHANGE BY MENU +/-

Press colour button	Effect
Red: For Sleep Timer (Automatic switch off function)	OFF -> 0:30 -> 1:00 -> 1:30 -> 2:00 (hours) After the selected time the TV set switches itself automatically into standby mode.
Green: For Parental Lock (For preventing children from watching programmes which you consider unsuitable)	OFF: Normal setting ON: The TV-channel you are watching is now blocked. In this way you can prevent undesirable broadcasts from appearing on the screen.
Yellow For TV Button Lock	OFF: Normal setting ON: The buttons on the TV do not function anymore. (The Remote Commander still operates)
Blue: For Demo Mode	ON: A sequence of menu pictures is displayed. Press any button on the Remote Commander to stop the function.
White: For Language	The SELECT LANGUAGE screen appears.

Advanced Presetting Functions

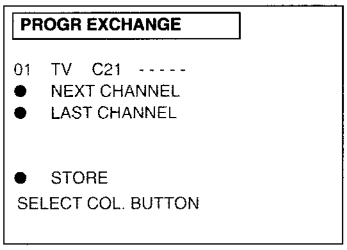
Exchanging Programme Positions

You can exchange the programme positions to a preferred order (example: exchange programme 09 (channel C21) with programme 15 (channel C24)).

1 **Press MENU [7].**
The MENU screen appears.

2 **Press the white button [17].**
The PRESET screen appears.

3 **Press the yellow button [17].**
The PROGR EXCHANGE screen appears.



PROGR EXCHANGE

01 TV C21 -----
● NEXT CHANNEL
● LAST CHANNEL

● STORE
SELECT COL. BUTTON

4 **Press the white button [17] repeatedly until the desired programme number (09) appears.**

5 **Press the red or the green button [17] repeatedly until the desired channel number (C24) appears.**

6 **Press the white button [17] to store.**
Now the exchange has been completed. Channel C24 is tuned in to programme 09 and channel C21 is tuned in to programme 15.

7 **Press MENU [7] twice to return to the normal screen.**

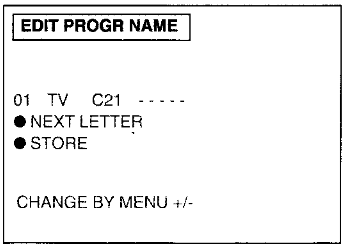
Editing Programme Names

You can edit the programme names up to five letters.

1 **Press MENU [7].**
The MENU screen appears.

2 **Press the white button [17].**
The PRESET screen appears.

3 **Press the blue button [17].**
The EDIT PROGR NAME screen appears.
The first character flashes.



EDIT PROGR NAME

01 TV C21 -----
● NEXT LETTER
● STORE

CHANGE BY MENU +/-

4 **Press MENU+/– [9] to edit the first letter.**
The first letter changes as follows;

A↔B↔...↔Z↔0↔1↔...↔9↔"–" (space)

5 **Press the red button [17] to move to the next letter.**

6 **Repeat steps 4 to 5, until the fifth letter is chosen.**

7 **Press the green button [17].**
The programme name is stored, and the normal screen appears. To edit another programme name, repeat steps 1 to 7.

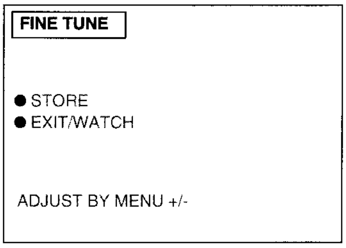
Fine Tuning

You can adjust the receiving condition by the FINE TUNE function.

1 **Press MENU [7].**
The MENU screen appears.

2 **Press the white button [17].**
The PRESET screen appears.

3 **Press the white button [17] again.**
The FINE TUNE screen appears.



FINE TUNE

● STORE
● EXIT/WATCH

ADJUST BY MENU +/-

4 **Press MENU+/– [9] to adjust the receiving condition.**

5 **Press the red button [17] to store the adjustment, or press the green button [17] not to store.**
Then the normal screen appears. If you have pressed the green button, the fine tuned condition is cancelled once you choose another programme.

Tuning in to a Channel Temporarily

You can tune in to a channel temporarily, even when it has not been preset.

1 **Press C [16] on the Remote Commander.**
The indicaton "C" appears on the screen.

2 **Enter a double-digit channel number using the number buttons (e.g. for channel 23, first press 2, then 3).**
The channel appears.
However, the channel is not stored.

Teletext Operation

TV stations broadcast teletext programmes via the TV channels. For basic operation of teletext, use the simple side of the Remote Commander. For the advanced features of teletext, use the buttons indicated in green on the full function side of the Remote Commander.

Basic Teletext Operation

Switching Teletext on and off

1 **Select the channel which carries the teletext service you wish to view.**

2 **Press ⊜ [11] to display Teletext.**
If no teletext signal is broadcast, the indication P100 is displayed on a black screen.

3 **Input three digits for the page number using the number buttons [4].**
The numbers are displayed on the screen and the requested page appears in a few seconds.
Note: If you make a mistake, type in any three digits, then re-enter the correct page number.

4 **Press ○ [3] once or ⊜ [11] twice to return to the TV mode.**

Note: To change the teletext channels. First press ○ [3] to return to the TV mode, then repeat steps 1 to 3.
Note: If the signal of a TV channel is weak, teletext errors may occur.

Advanced Teletext Operation

Using Fastext

With Fastext you can access pages with one button press. When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons [6] on the Remote Commander.
Press the corresponding colour button [6] on the Remote Commander which corresponds to the colour-coded menu. The page will be displayed in a few seconds.

Requesting the Index page

Press ⓘ [17]. The Index page appears.

Accessing the next or preceding page

Press ⊞ (PAGE +) or ⊟ (PAGE –) [18]. The next or the preceding page appears on the screen.

Superimposing the teletext display on the TV picture

Press ⊜ [11] once if you are in text mode or press ⊜ [11] twice if in TV mode.
To return to the normal teletext display press ⊜ [11] twice.

Preventing a teletext page from being updated or changed

Press ⊗ (HOLD) [2]. The HOLD symbol (⊗) appears on the screen and the selected subpage is held until you press ⊜ [11] to cancel.

Enlarging the teletext display

Press ⊕ [13] once to enlarge the upper half. Press twice to enlarge the lower half. Press again to restore the normal display.

world weather
world weather

Revealing concealed information (e.g. answers to a quiz)

Press ⓘ (REVEAL) [14]. The information is revealed. Press ⓘ [14] again to conceal the information.

Watching TV while waiting for a requested page to be displayed

1 **Request a new teletext page.**

2 **Press ☒(TEXT CL) [12].**
The TV programme is displayed and the symbol ⊜ is displayed at the top of the page.
Note: When the requested page is available the page number is displayed at the top of the screen.

3 **Press ⊜ [11] to view the page.**

Note: To cancel the request
Display the teletext page, then press ⊜ [11]. The request is now cancelled. Press ○ [3] to resume TV mode.

Using the Favourite Page system

You can store up to four of your favourite teletext pages per programme with the help of the Favourite page system. In this way you have quick access to the pages you watch frequently.

Storing the Favourite Pages

1 **Select the page you would like to store using the number buttons [4].**

2 **Press ◈ [15] twice.**
The colour prompts at the bottom of the screen flash.

3 **Press any of the colour buttons [6] on the Remote Commander to store the selected page.**
The page is now stored on this button.

Repeat steps 1 to 3 for the other 3 pages available.

Displaying the Favourite pages

1 **Press ◈ [15].**

2 **Press the colour button [6] corresponding to the colour prompt onto which the desired page is stored.**
The page is requested. (It may take a few seconds to be received).

Note: Step 1 must be taken before every favourite page selection, otherwise the normal Fastext facility operates.

Using the Time Function in the TV mode

Press ◎ [12] to request the time. Press again to cancel the request.
Note: This function is available only when teletext is broadcast.

Connecting Other Equipment

You can connect optional audio/video equipment to this TV such as VCRs, video disc players, cameras or stereo systems.

Connector	Acceptable input signal	Available output signal
⇥1 M (AV1/RGB)	Audio/video and RGB signal	Audio/video signal from TV Tuner
Ⓢ⇢2/⇥Ⓢ2 L (AV2) (YC2)	Audio/video and S video signal	Audio/video signal from selected source
⇥3/⇥3 G H (AV3)	Audio/video signal and	No outputs
⇥3/⇥Ⓢ3 G I (YC3)	Audio/S video signal	

To watch a video input picture, press ⇥ 2 until the desired video input appears.
To return to the normal TV picture, press ⇥ 2 repeatedly or press ○ 3.

Note: If you have a decoder, connect it to ⇥1 M.

Connecting a VCR Using the TV Aerial Terminal

Connect the aerial output of the VCR to the aerial terminal K of the TV. It is recommended to tune in the VCR signal to programme number "0". For details, see "Tuning in to Channels Manually" on page 6.

Note: S video input (Y/C input) I L
Video signals may be separated into Y (luminance or brightness) and C (chrominance) signals.
Separating the Y and C signals prevents them from interfering with each other and therefore improves the picture quality (especially luminance). This TV is equipped with 2 video input terminals through which these signals can be input directly.

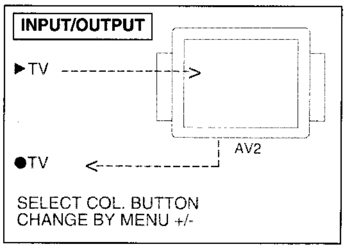
Checking and Selecting the Input and Output Sources Using the Menu

You can display a menu screen to see which input and output source are selected. You can also change the selection using this menu.

Checking the Input and Output Sources

1 **Press MENU 7.**
The MENU screen appears

2 **Press the blue button 17 to select INPUT/OUTPUT.**
The INPUT/OUTPUT screen appears.



Selecting an Input Signal

Press the red button 17 to select INPUT. Press MENU +/− 9 to select the desired input source.
You can select among the following sources:

TV↔AV1↔RGB↔AV2↔YC2↔AV3↔YC3

Selecting an Output Signal

The Ⓢ⇢ 2 / ⇥Ⓢ2 connector L outputs the source input from the other connectors. Press the green button 17 to select OUTPUT. Press MENU +/− 9 to select the desired output source.

You can select among the following sources:

TV↔AV1↔AV2↔YC2↔AV3↔YC3

Note: Press MENU 7 twice or wait until the menu displays disappear automatically to return to the normal screen.

Remote Control of Other Sony Equipment

You can use the TV Remote Commander to control most Sony remote-controlled video equipment such as: Beta, 8mm or VHS VCRs or video disc players.

Tuning the Remote Commander to the equipment

1 **Set the VTR 1/2/3 MDP selector 20 according to the equipment you want to control:**

VTR 1: Beta VCR
VTR 2: 8mm VCR
VTR 3: VHS VCR
MDP: Video Disc Player

2 **Use the buttons 21 to operate the additional equipment.**

Note: If your video equipment is furnished with a COMMAND MODE selector: set this selector to the same position as the VTR 1/2/3 MDP selector on the TV Remote Commander.
Note: If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.
Note: When you use the ● (record) button, make sure to press this button and the one to the right of it simultaneously.

Using Headphones

You can utilise headphones. Connect them to the headphone jack J to mute the sound from the speakers.
Note: You cannot control the sound adjustment except for volume.

For your information

Troubleshooting

Here are some simple solutions to problems which may affect the picture and sound.

No picture (screen is dark), no sound

- Plug the TV in.
- Press ⏻ A on the TV. (If the standby indicator B is lit, press ▢ 3 or any number button 4 on the Remote Commander.)
- Check if the selected video source is on.
- Turn the TV off for three or four seconds and then turn it on again using ⏻ A.

Poor or no picture (screen is dark), but good sound

- Press MENU 7 to enter the MENU screen, and press the red button 17, then adjust ◑ and ☼.

Good picture but no sound

- Press ◢+ 19.
- If 🔇 is displayed on the screen, press 🔇 1.

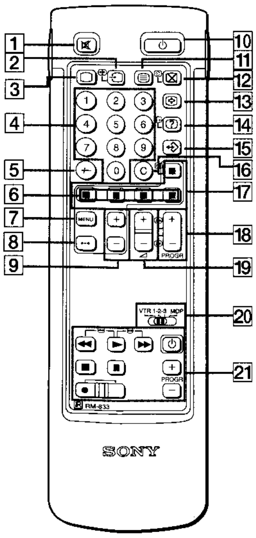
No colour for colour programmes

- Press MENU 7 to enter the MENU screen, and press the red button 17, then adjust ◕.

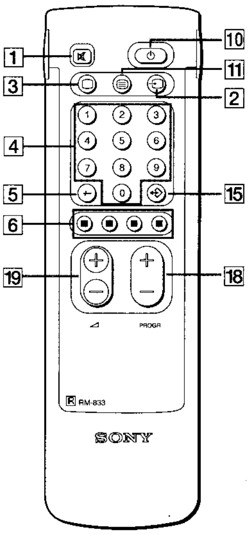
Remote Commander does not function

- Replace the battery.

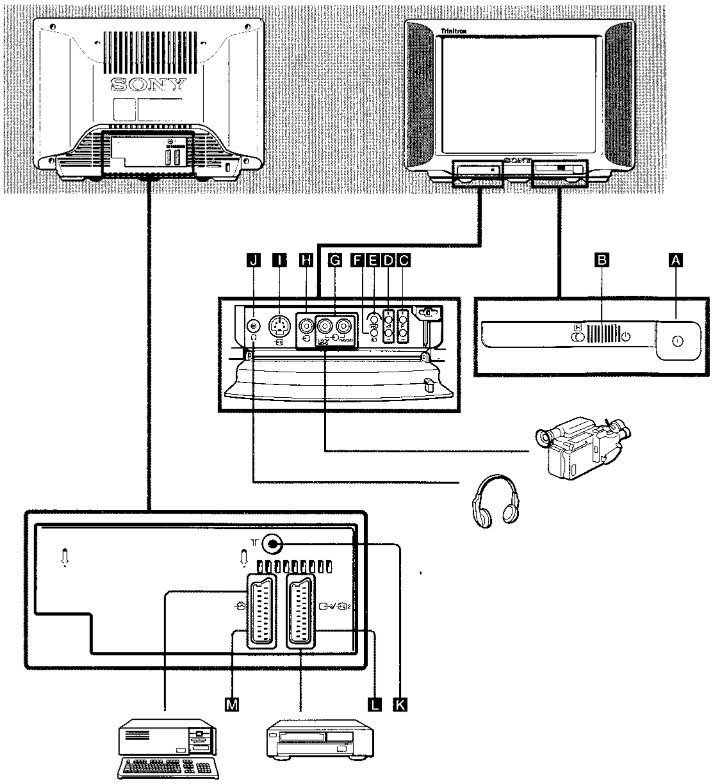
If you continue to have problems, have your TV serviced by qualified personnel. Never open the casing yourself.


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
MENU
PROGR
VTR 1·2·3
RM-833
SONY

Full-Function Side

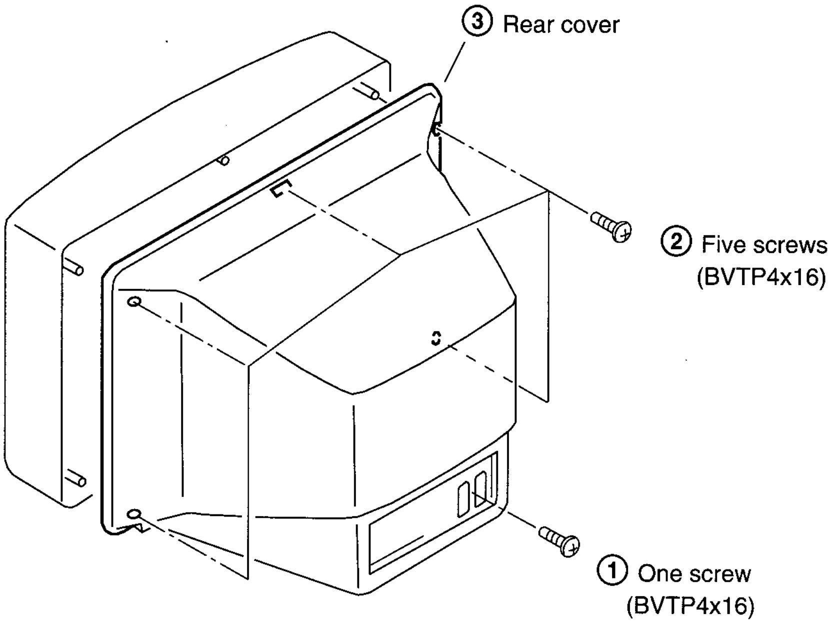

1
3
4
5
6
19
10
11
2
15
18
PROGR
RM-833
SONY

Simple Side

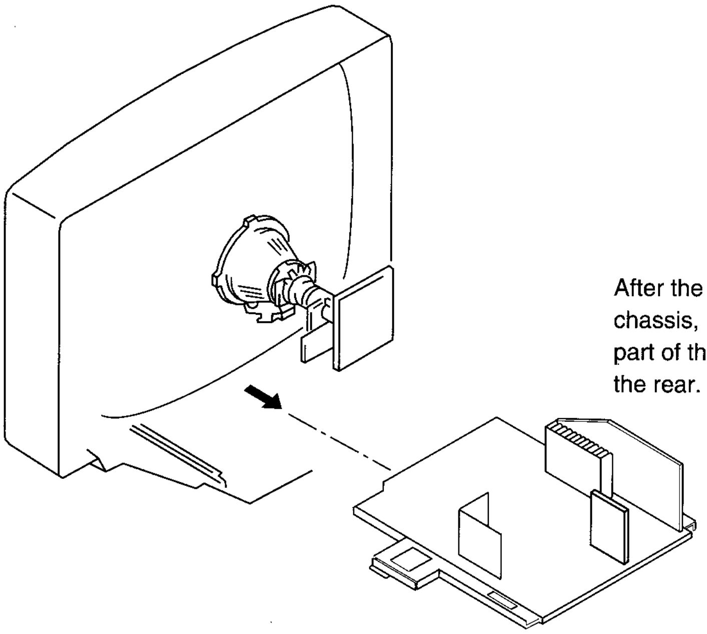

SONY
Trinitron
J
I
H
G
F
E
D
C
B
A
M
L
K

SECTION 2
DISASSEMBLY

2-1. REAR COVER REMOVAL

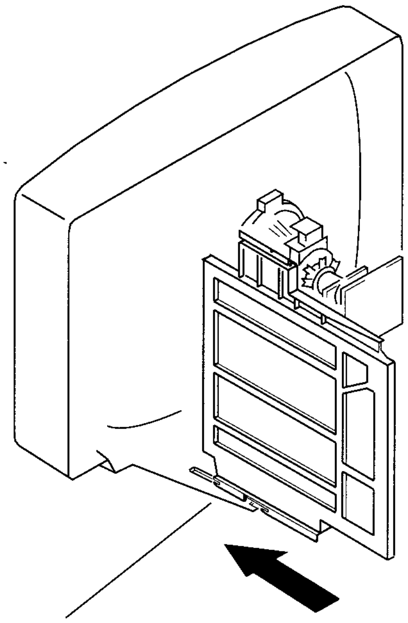

③ Rear cover
② Five screws
(BVTP4x16)
① One screw
(BVTP4x16)

2-2. CHASSIS ASSY REMOVAL



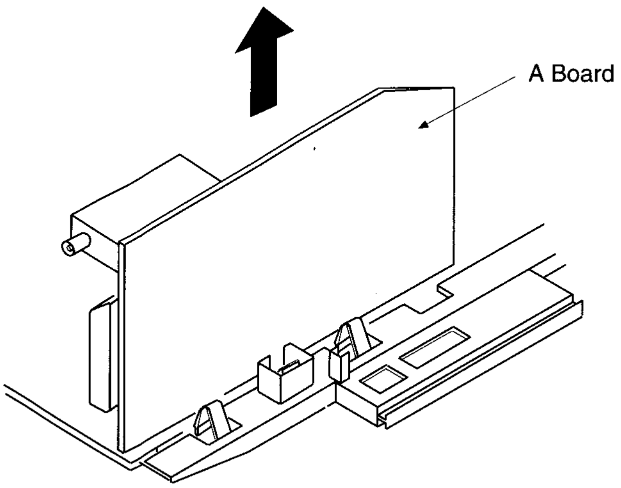
After the assembly of the main chassis, lift and pull out the rear part of the main chassis towards the rear.

2-3. SERVICE POSITION

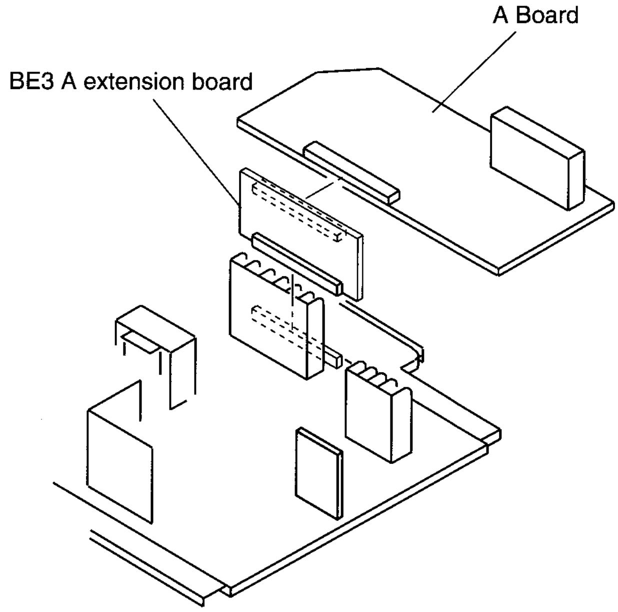


Locate the 2 slots on the edge of the chassis bracket in the locating holes and slide in the direction of the arrow

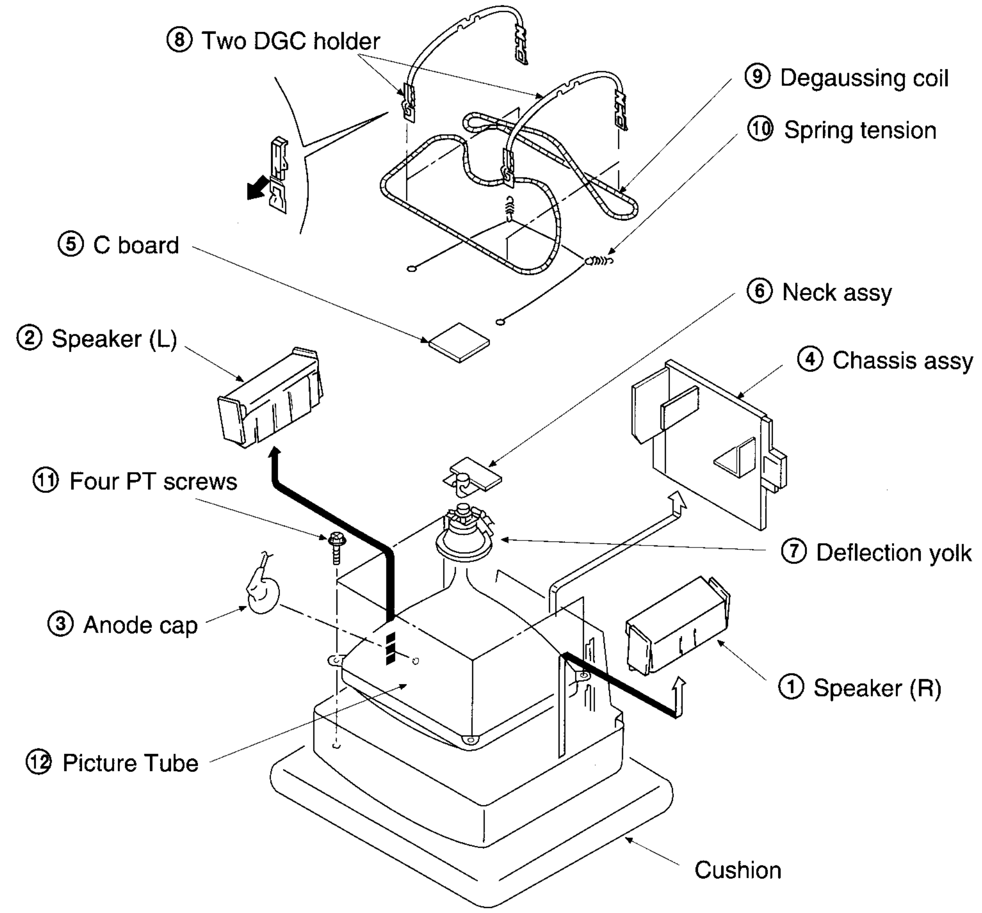
2-4. A BOARD REMOVAL



2-5. EXTENSION BOARD


A Board
BE3 A extension board

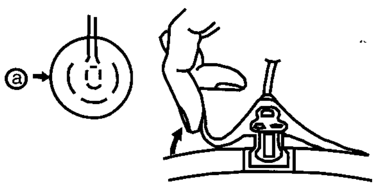
2-6. PICTURE TUBE REMOVAL


⑧ Two DGC holder
⑨ Degaussing coil
⑩ Spring tension
⑤ C board
⑥ Neck assy
② Speaker (L)
④ Chassis assy
⑪ Four PT screws
⑦ Deflection yolk
③ Anode cap
① Speaker (R)
⑫ Picture Tube
Cushion

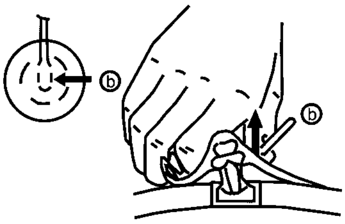
• REMOVAL OF ANODE-CAP

Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

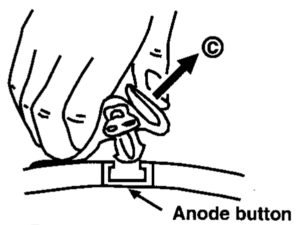
*** REMOVING PROCEDURES.**



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ



② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ


ⓒ
Anode button

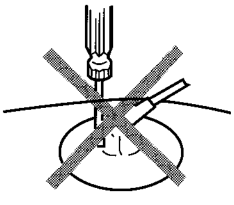
③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ⓒ

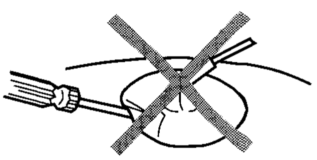
- **HOW TO HANDLE AN ANODE-CAP**

① Don't damage the surface of anode-cap with sharp shaped material !

② Don't press the rubber hardly not to hurt inside of anode-caps !
A metal fitting called as shatter-hook terminal is built into the rubber.

③ Don't turn the foot of rubber over hardly !
The shatter-hook terminal will stick out or damage the rubber.





SECTION 3
SET - UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to these settings :

◑ Contrast .... 80% (or remote control normal)
☼ Brightness 50%

- Carry out the following adjustments in this order :

1. Beam landing
2. Convergence
3. Focus
4. White balance

Note: Testing equipment required.
1. Color bar/pattern generator
2. Degausser
3. DC power supply
4. Digital multimeter
5. Oscilloscope

Preparation:

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input the white signal with the pattern generator.
   CONTRAST } normal
   BRIGHTNESS }
2. Position neck assy as shown in Fig.3-2.
3. Set the pattern generator raster signal to red.
4. Move the deflection yoke forward and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side. (See Fig. 3-1 - 3-3)
5. Move the deflection yoke forward and adjust so that the entire screen becomes red. (See Fig. 3-1)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Fig. 3-4)

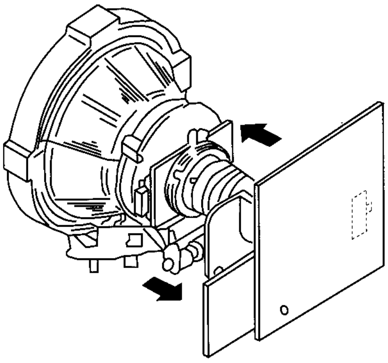


Fig. 3-1

Fig. 3-2

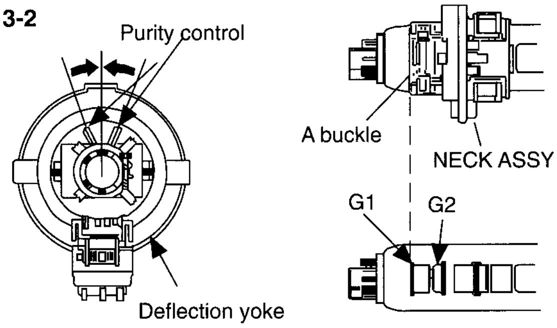
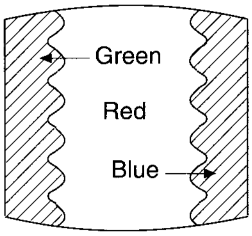
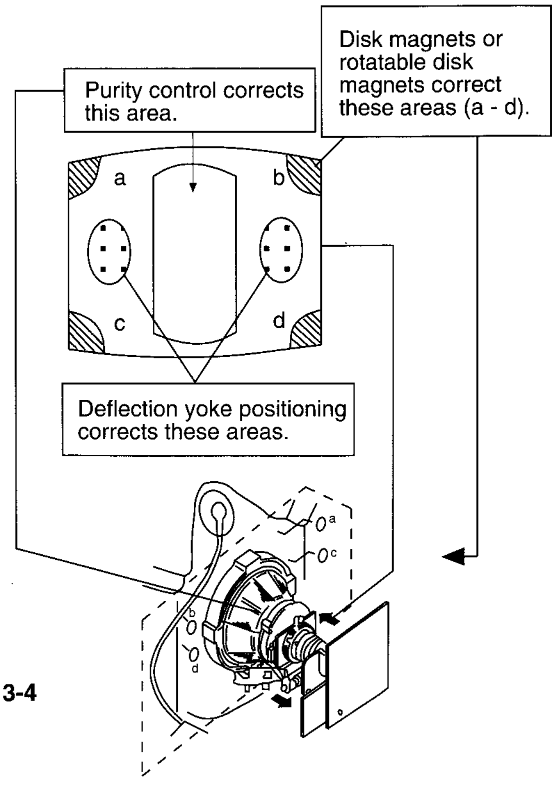


Fig. 3-3





Purity control corrects this area.

Disk magnets or rotatable disk magnets correct these areas (a - d).

Deflection yoke positioning corrects these areas.

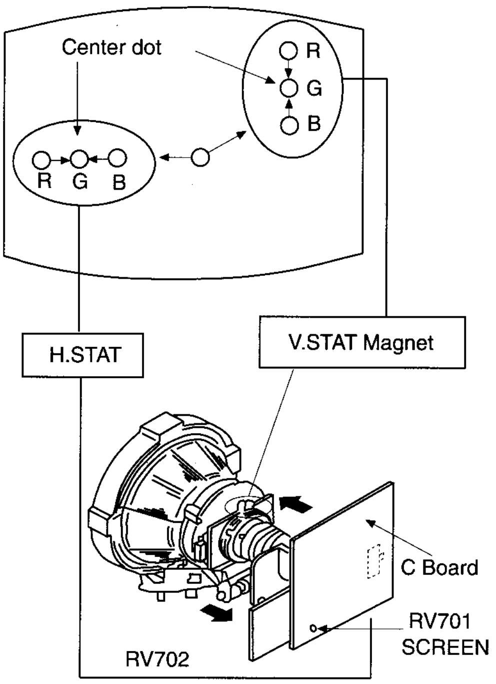
Fig. 3-4

3-2. CONVERGENCE

Preparation:

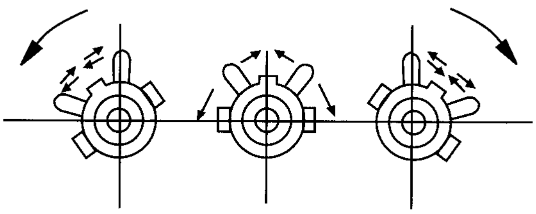
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide a dot pattern.

(1) Horizontal and vertical static convergence



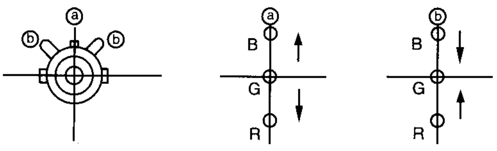
1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.
   (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

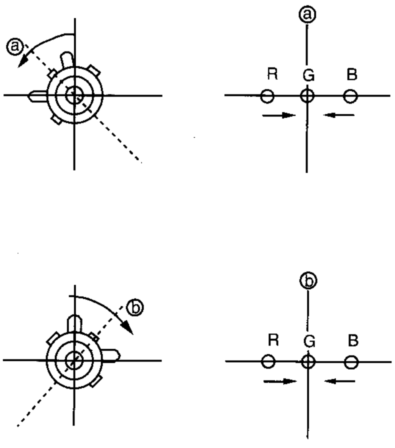


4. If the V.STAT magnet is moved in the direction of the ⓐ and ⓑ arrows, the red, green, and blue points move as shown below.

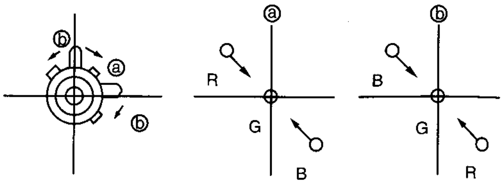
①



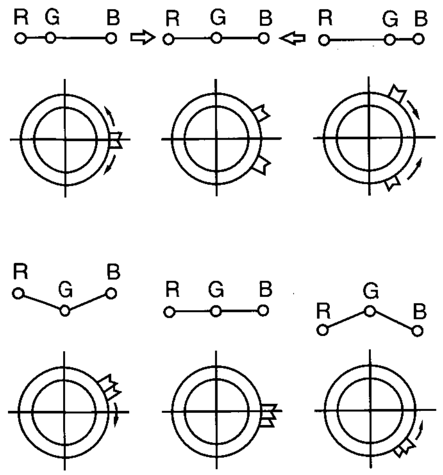
②

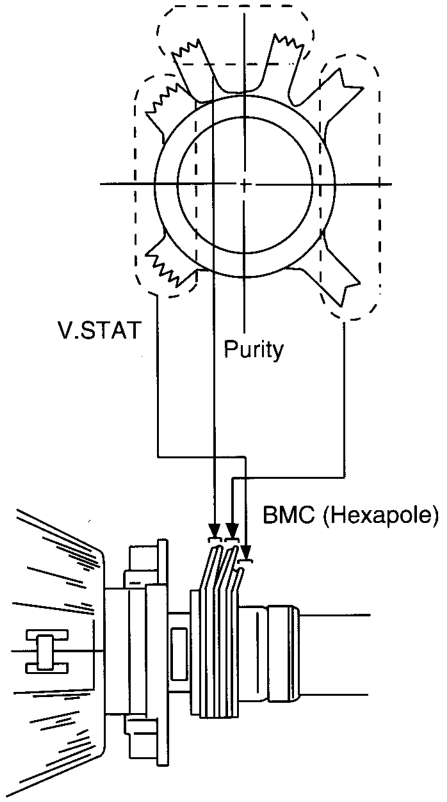


③



- Operation of BMC (Hexapole) Magnet


R G B
R G B
R G B
R G B
R G B
G R B


V.STAT
Purity
BMC (Hexapole)

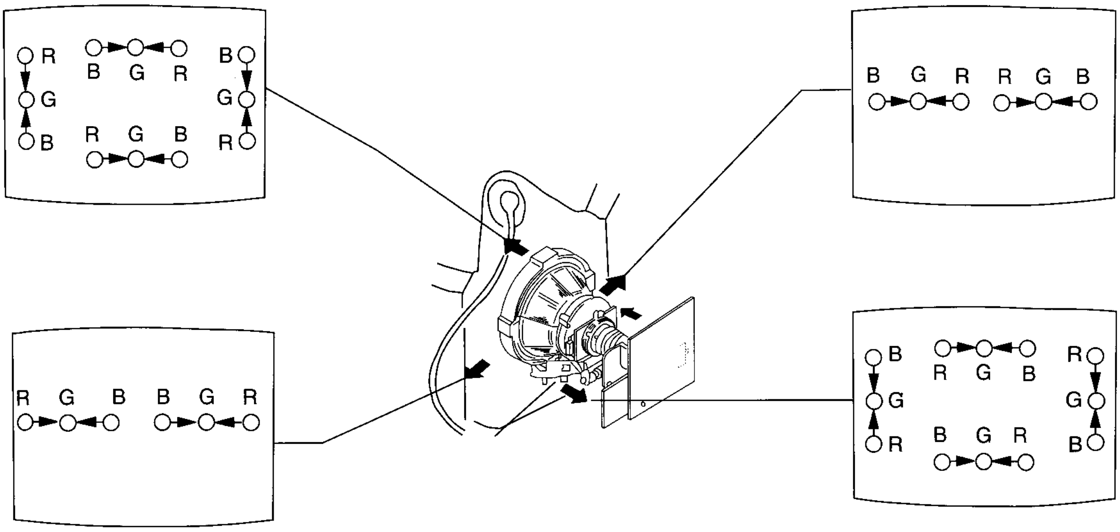
- The respective dot position resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
  Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of the screen (by moving the dots in the horizontal direction).

(2) Dynamic convergence adjustment.

Preparation:

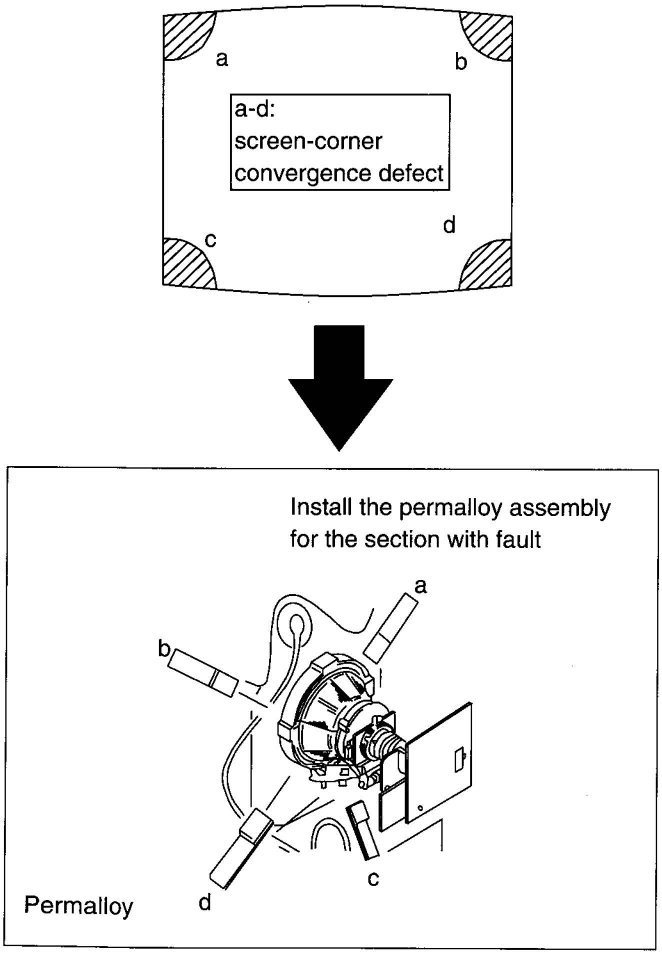
- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

1. Slightly loosen the deflection yoke screws.
2. Remove the deflection yoke spacer.
3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Re-install the deflection yoke spacer.


R G B
B G R
R G B
B R G
B G R
R G B
R G B
B G R
B G R R G B
R G B B G R
B G R
R G B
R G B
R B G
R G B
B G R

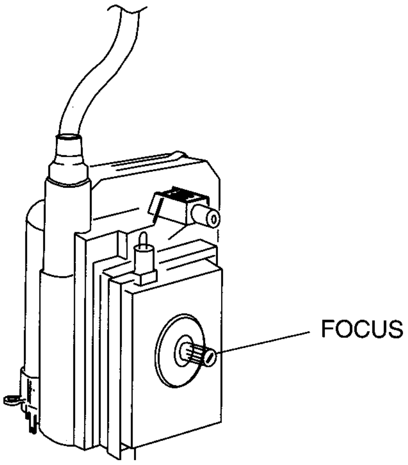
(3) Screen corner convergence.

If you are unable to adjust the corner convergence properly, correct them with the use of permalloy assemblies.



3-3. Focus

Adjust the focus to optimize the screen.



3-4. WHITE BALANCE

Screen G2 Setting

1. Input the dot signal from the pattern generator.
2. Set the picture brightness control to its lowest level.
3. Apply 180V DC to the R,G, and B cathodes with an external power supply.
4. While watching the picture, adjust G2 control RV701 (Screen) to the point just before the return lines disappear.

White balance adjustment

1. Receive an all-white signal.
2. Enter into service mode. (Refer to the section 4 "Electrical Adjustment" on how to enter service mode.)
3. Select TDA8366 1 on menu.

```
DEVICE :     TDA8366   1

STAT : 12
☐ NEXT
☐ PREVIOUS
☐ OK

USE COLOUR KEYS
SONY           TEST MENU.
```

4. Press the White button on the Remote Commander to enter into the device Menu.
5. Press the Red button 10 times "Next" "Next" "Next" to select HWB RED, adjust to 32.
6. Press the Red button to select HWB GREEN, adjust with the + and - menu buttons so that the white balance becomes optimum.
7. Press the Red button to select HWB BLUE, adjust with the + and - menu buttons so that the white balance becomes optimum.
8. Press the TV button twice on the Remote Commander to store the data and return to TV operation.

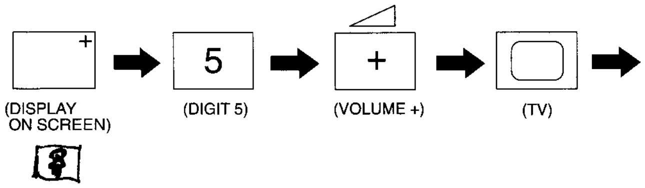
SECTION 4
CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander RM-833.

HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set and enter into standby mode.
2. Press the following sequence of buttons on the Remote Commander.



"TT " will appear in the top right corner of the screen. Other status information will also be displayed.

3. Press the MENU button on the Remote Commander to obtain the menu on the screen.

DEVICE NAME

STAT : xxxx

☐ NEXT
☐ PREVIOUS
☐ OK

USE COLOUR KEYS
SONY TEST MENU.

4. Press the Red (Next) and Green (Previous) buttons to select the device corresponding to the adjustment item from the table. Then press the White button (OK).

DEVICE NAME

00 ADJUSTMENT : xxx

☐ NEXT
☐ PREVIOUS

SELECT COL.BUTTON
CHANGE BY MENU +/-

5. Press the Red (Next) or Green (previous) buttons to select the adjustment item. Then press the ▽ and △ buttons to change the data to comply with each standard.

6. Turn off the power to quit the service mode when adjustments are completed.

Initial Conditions for setup of TDA8366, TDA6612 and SAA7283. (Stereo Models Only)

TDA8366 1	INIT VALUE	TDA8366 2	INIT VALUE
Hue	31	Interlace	00
H Shift	Adj	Sync Mode	00
H Size	Adj	Col Dec	00
Pin Amp	Adj	Vert Div	00
Corn Pin	Adj	Vid ID	00
Tilt	Adj	EHT Track	01
V.Linear	Adj	En V Grd	00
V.Size	Adj	Serv Blk	00
S.Corr	Adj	OVP Mode	00
V.Cent	Adj	Aspect R	00
HWB Red	Adj	Start Freq	00
HWB Green	Adj	Y/C Input	00
HWB Blue	Adj	PAL/NTSC	00
Peaking	8	Xtal PLL	00
Bright	32	Y Delay	07
Colour	32	RGB Blk	00
Picture	37	Noise Cor	00
AGC Set	00	Fast Blk	01
Srce Sel 1	00	AFC Wind	00
Srce Sel 2	00	IF Sensty	00
Time Con	03	Mod Std	00
Xtal Ind	03	Vid Mute	01
FF Freq	02		

TDA6612	INIT VALUE	TDA6612	INIT VALUE
MPX Per	00	Mute 2	01
Quasi St	00	C1/2LS	00
Bass Exp	00	C1/2KH	00
H Pulse	00	Mono	01
Matrix St	00	Scart	00
Bypass	00	Scart D	00
Vol L Sp	07	AM	00
Vol R Sp	07	SAA7283	INIT VALUE
Vol HP	00	Mon M1/M2	01
Pll Sync	00	DM Select	01
Mute 3	01	SSWIT 123	07
Treble	08	Port 2	00
Bass	09	Mute Def	00
X Talk Adj	Adj	AMDIS	00
Mute 1	00	E Max	80
		E Min	01

4-2. TEST MODE 2 :

Is available by pressing Test button twice, OSD 'TT ' appears. The functions described below are available by pressing the two numbers. To release the Test Mode 2, press 0 twice, or switch the TV into Stand-by Mode.

00	switch Test Mode 2 off
01	picture maximum
02	picture minimum
03	Volume 35%
04	Volume 50%
05	Volume 65%
06	Volume 80%
07	Ageing Condition (Volume min., Picture max., Brightness max.
08	Shipping Condition (Analog Values are RESET due to factory setting, Prog 1 is selected, TT Mode is switched off)
09	"Menu" Flag request
10	Tenth entry is deleted
11	dummy
12	dummy
13	dummy
14	Forced AV 16:9 detection on/off
15	Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory)
16	Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM.
17	Preset Label for AV Sources
18	RGB Priority on/off
19	Clear all preset labels
20	Tenth entry is deleted
21	Sub Contrast
22	Sub Colour
23	Sub Brightness
24	Set destination = U RGB Priority = Off
25	Set destination = D RGB Priority = Off
26	Set destination = B RGB Priority = On
27	Set destination = K RGB Priority = Off
28	Set destination = L RGB Priority = Off
29	Set destination = E RGB Priority = Off

30	Tenth entry is deleted
31	Set Destination = A RGB Priority = On
32	dummy
33	Auto AGC
34	N/S Pin Adjust
35	Manual AGC Adjust
36	dummy
37	dummy
38	To Activate Rotation Coil Adjustment
39	Check Rotation Coil Adjustment
40	Tenth entry is deleted
41	Re-initialise NVM
42	Production use only
43	Initialise Geom Settings
44	Initialise all favorite pages = 100
45	Channel locks = off
46	IR Channel Pressetting Mode The channel pressetting can be done by a Special IR Transmitter (Ver 2 and above software only)
47	dummy
48	Set NVM testbyte to 44h
49	Erase the NVM Testbyte (this byte detects already stored NVM's) After selecting this function, switch TV Off and On -> the NVM will be preset by µ-Controller.

In Test Mode the Menu display is switchable by the Speaker-Off button.

Note : For Test Modes 41 - 49 it is necessary to ensure that the TV is set to Prog 59.

SUB BRIGHTNESS ADJUSTMENT

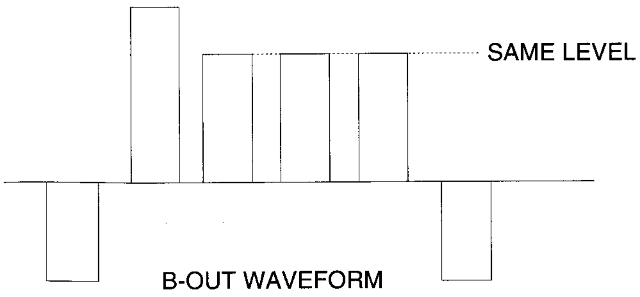
1. Input a Phillips pattern.
2. Enter into service mode and press 23.
3. Adjust data so that 0-IRE of grey scale and CUT-OFF 20-IRE are only slightly visible on screen.

SUB CONTRAST ADJUSTMENT

1. Input a video that contains a small 100% area on a Black Background.
2. Enter into service mode and press 01 to have PIC max followed by 21.
3. Connect oscilloscope to pin ① of CN703 (R OUT) and adjust HWB Red data of TDA8366 1 to obtain 2.3Vp-p.

SUB COLOR ADJUSTMENT

1. Input a PAL color bar signal.
2. Connect an oscilloscope to pin ③ of CN703 (B OUT) on the C board.
3. Enter into service mode and press 22.
4. Adjust data so that the right sides of the waveform are set to the same level.



STEREO SEPARATION ADJUSTMENT

1. Input a 1KHz stereo signal to the L-ch and a 400Hz stereo signal to the R-ch.
2. Enter into service mode and select the "Test Menu" to be TDA6612.
3. Select the Stereo Xtalk Adjustment Menu, by using the Red (Next) and Green (Previous) buttons.
4. Monitor the Scart 1 L-channel output and adjust the data so that the R-channel sound is not detected in the L-channel.

I.F. COIL ADJUSTMENT (T101) - B/G, D/K, I AND L STANDARD FOR CONTINENTAL MODELS.

1. Apply a 38.9MHz signal at 100dBuV to the input of SWF101.
2. Receive a channel so that the I.C. is selected for negative modulation.
3. Measure the voltage at the AFT test point and adjust (T101) to obtain 2.4V +/- 0.2V.

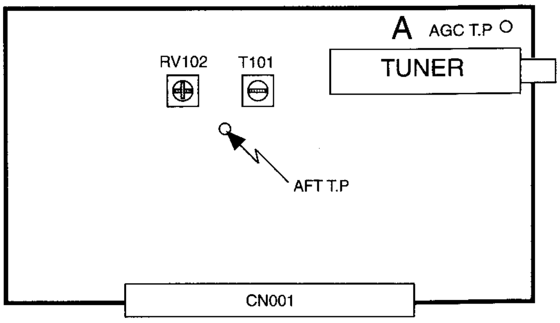
L, BAND 1 ADJUSTMENT (RV102) - L, STANDARD FOR FRENCH MODELS.

1. Apply a 33.95MHz signal at 100dBuV to the input of SWF101.
2. Receive a channel so that the I.C. is selected for positive modulation and system L band 1.
3. Measure the voltage at the AFT test point and adjust (RV102) to obtain 2.4V +/- 0.2V.

Note : Only adjust RV102 after T101 has been correctly adjusted.

AGC ADJUSTMENT

1. Receive an off- air signal.
2. Enter the service mode, ("Test" "Test") and 35.
3. Adjust the data so that there is no snow or cross - modulation visible on the screen.
4. Change the receiving off-air channel, and confirm the above status.



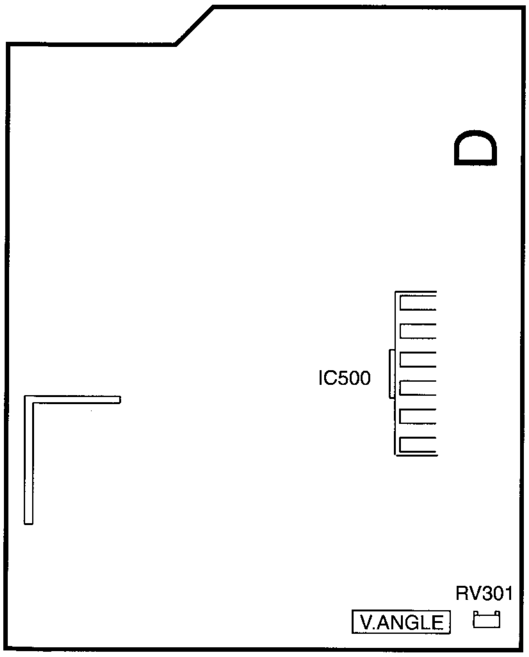
- A Board component side -

DEFLECTION SYSTEM ADJUSTMENT

1. Enter into service mode.
2. Select and adjust each item in order to obtain the optimum image.

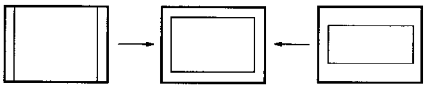
Item No	Adjustment item.	Data Amount
03	H SHIFT	ADJ.
04	H SIZE	ADJ.
05	PIN AMP	ADJ.
06	CORR PIN	ADJ.
07	TILT	ADJ.
08	V LINEAR	ADJ.
09	V SIZE	ADJ.
0A	S CORR	ADJ.
0B	V CENTER	ADJ.

Note : V ANGLE is adjusted by a Variable Resistor on the 'D' Board (RV301)

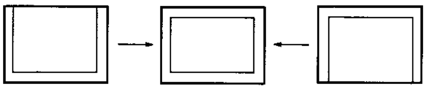


- D Board Component Side -

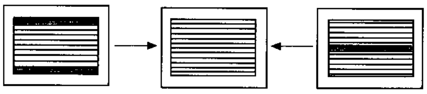
V SIZE



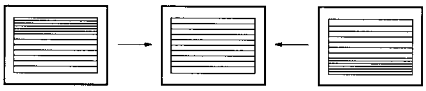
V CENTER



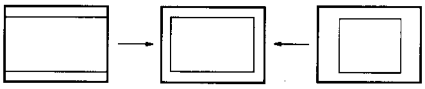
S CORR



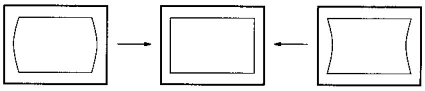
V LIN



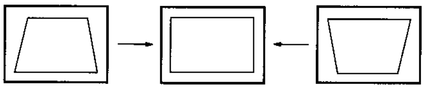
H SIZE



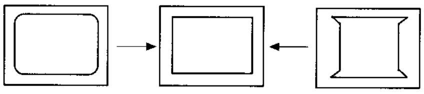
PIN AMP



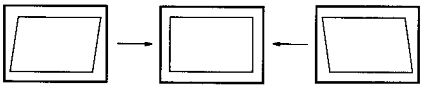
TILT



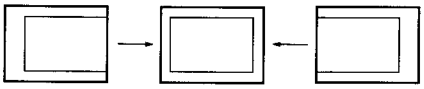
CORR PIN



V ANGLE

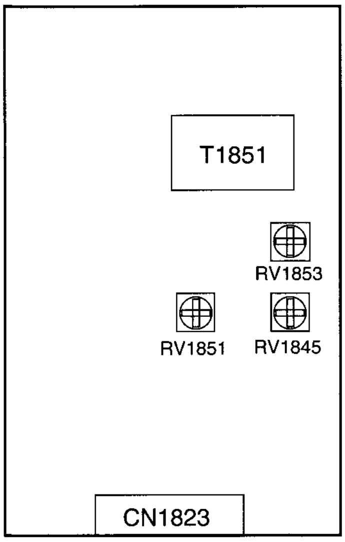


H SHIFT

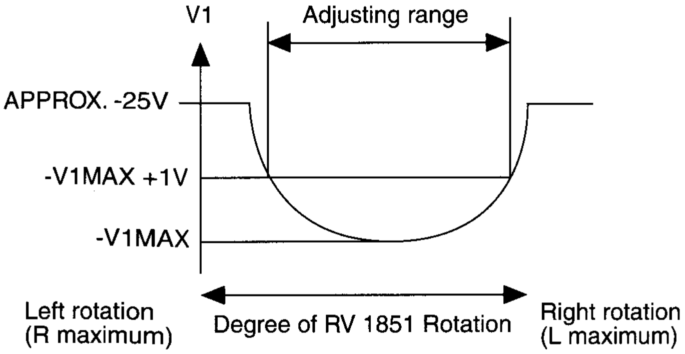


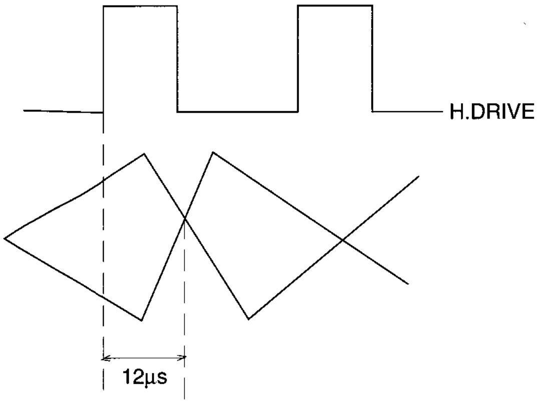
PULSE WIDTH & V-PIN ADJUSTMENTS (RV 1851/1853)

D2 BOARD



1. Connect an oscilloscope to pin 2 of T1851.
2. Preset RV-1853 to center of its range (mechanical center).
3. Adjust RV-1851 to obtain minimum amplitude.
4. Switch the oscilloscope input to D.C. and adjust RV-1853 to obtain -33.2 ± 0.5V.
5. Adjust RV-1845 so that the difference between leading edge of H-drive pulse and V-pin out is 12µs.





4-3. BE-3C SELF DIAGNOSTIC SOFTWARE

The identification of errors within the BE-3C chassis is triggered in 1 of 2 ways :- 1: Bus busy or 2: Device failiure to respond to IIC. In the event of one of these situations arrising the software will first try to release the bus if busy (Failiure to do so will report with continous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the led (Series of flashes which must be counted) See Table 1., on fatal errors are reported with this method.

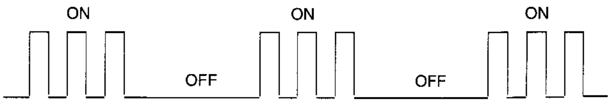
If a fatal error is found the set will simply stay in whichever state it was when the error occured, but if a non fatal error occurs the set will try to continue operation.

Table 1

Device	LED Error Count	Fatal Error
NVM	2 .. 9	√
Teletext	10	
Jungle	11	√
Video_sw	12	
Tuner	13	√
Nicam	14	
Audio_cont	15	√

Flash Timing Example : e.g. error number 3.

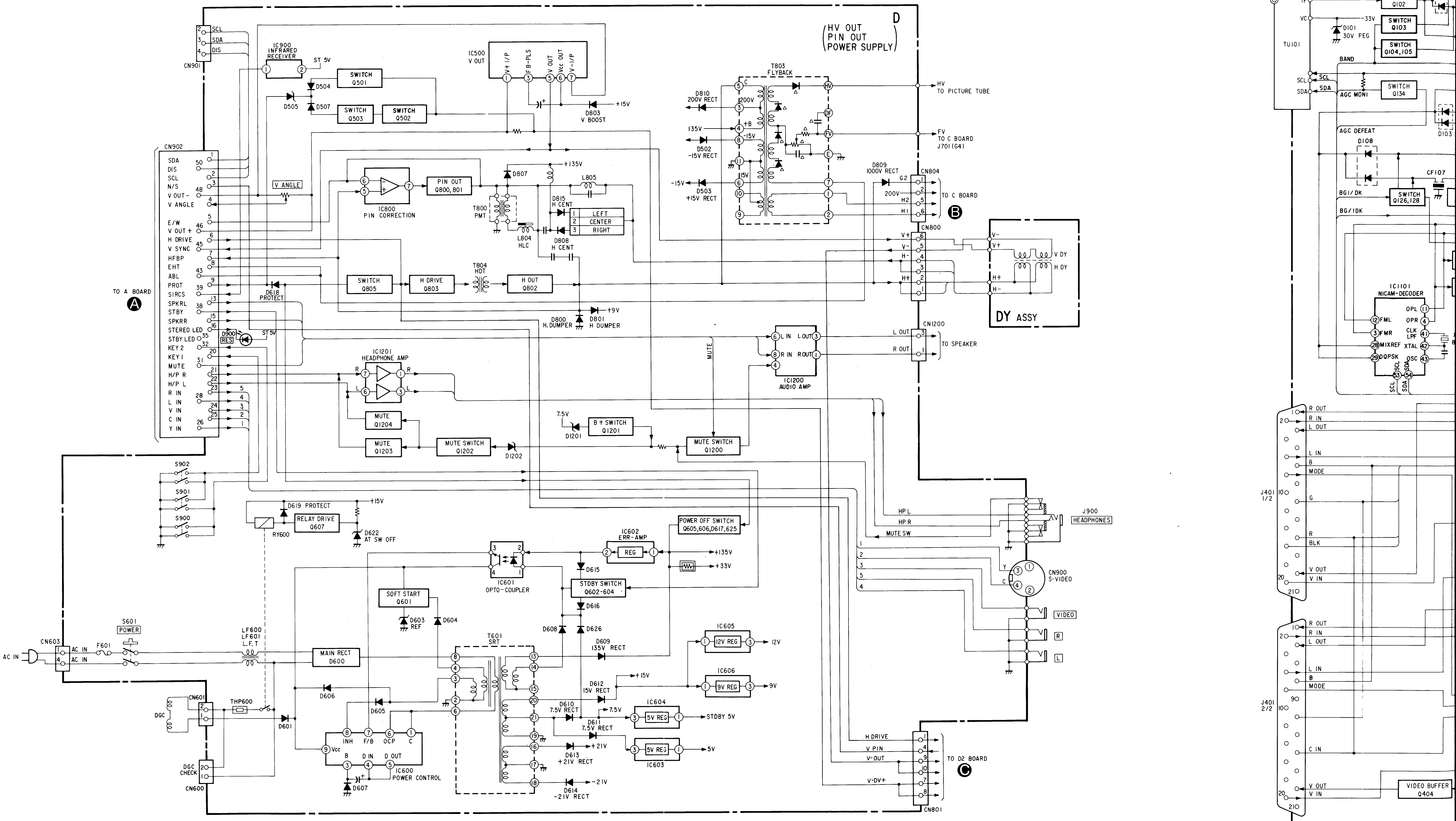
Stby LED

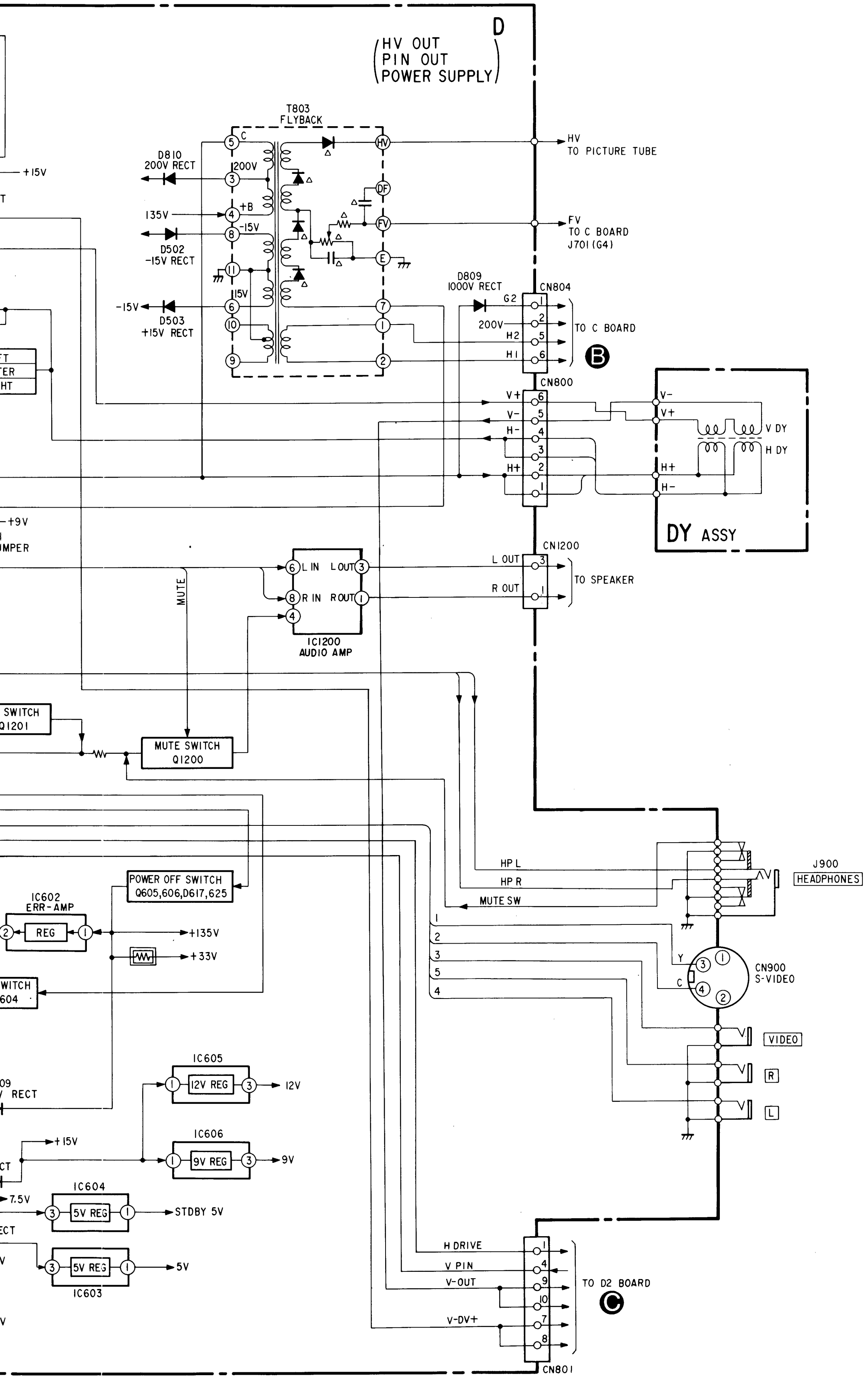


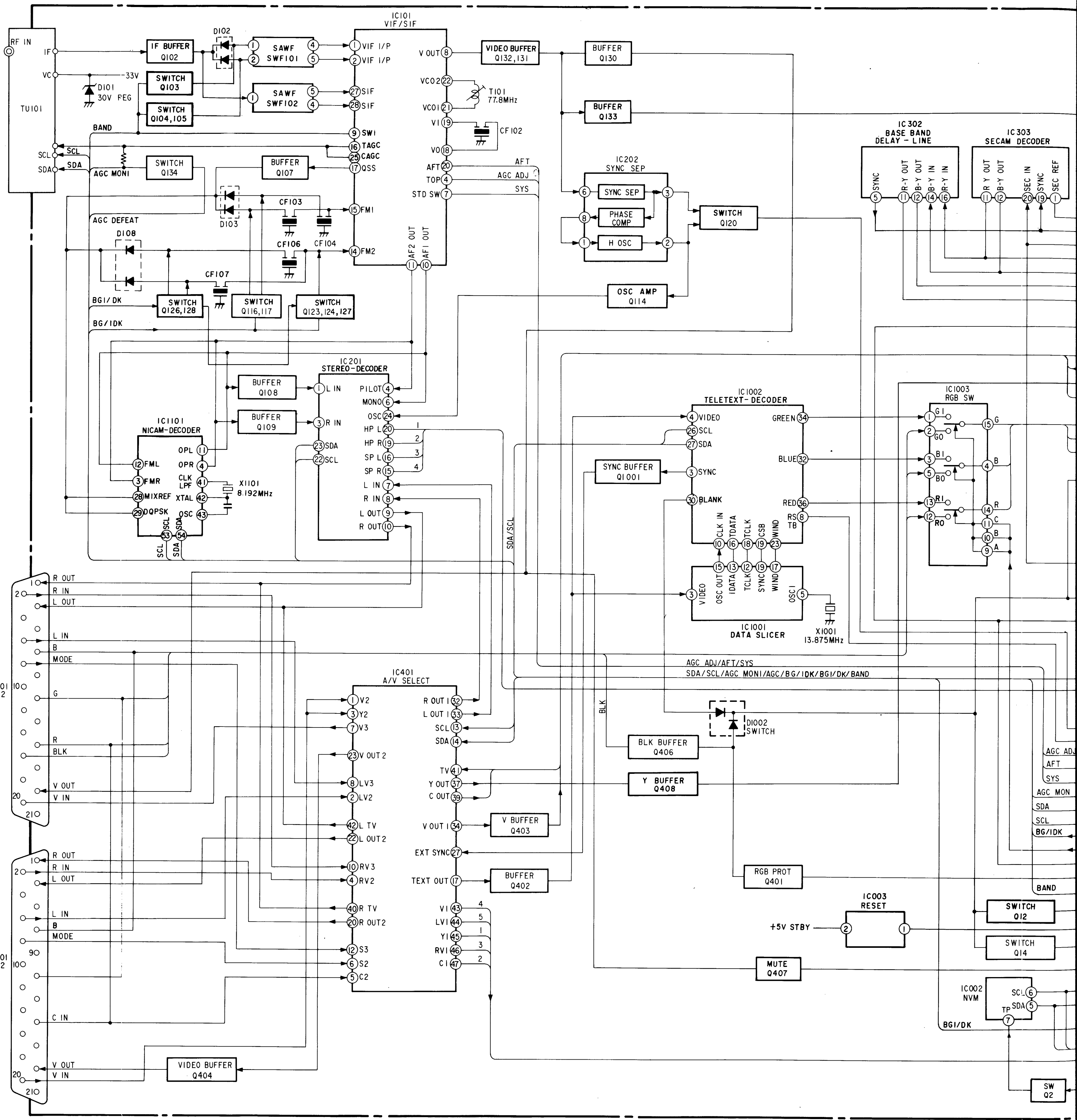
MEMO

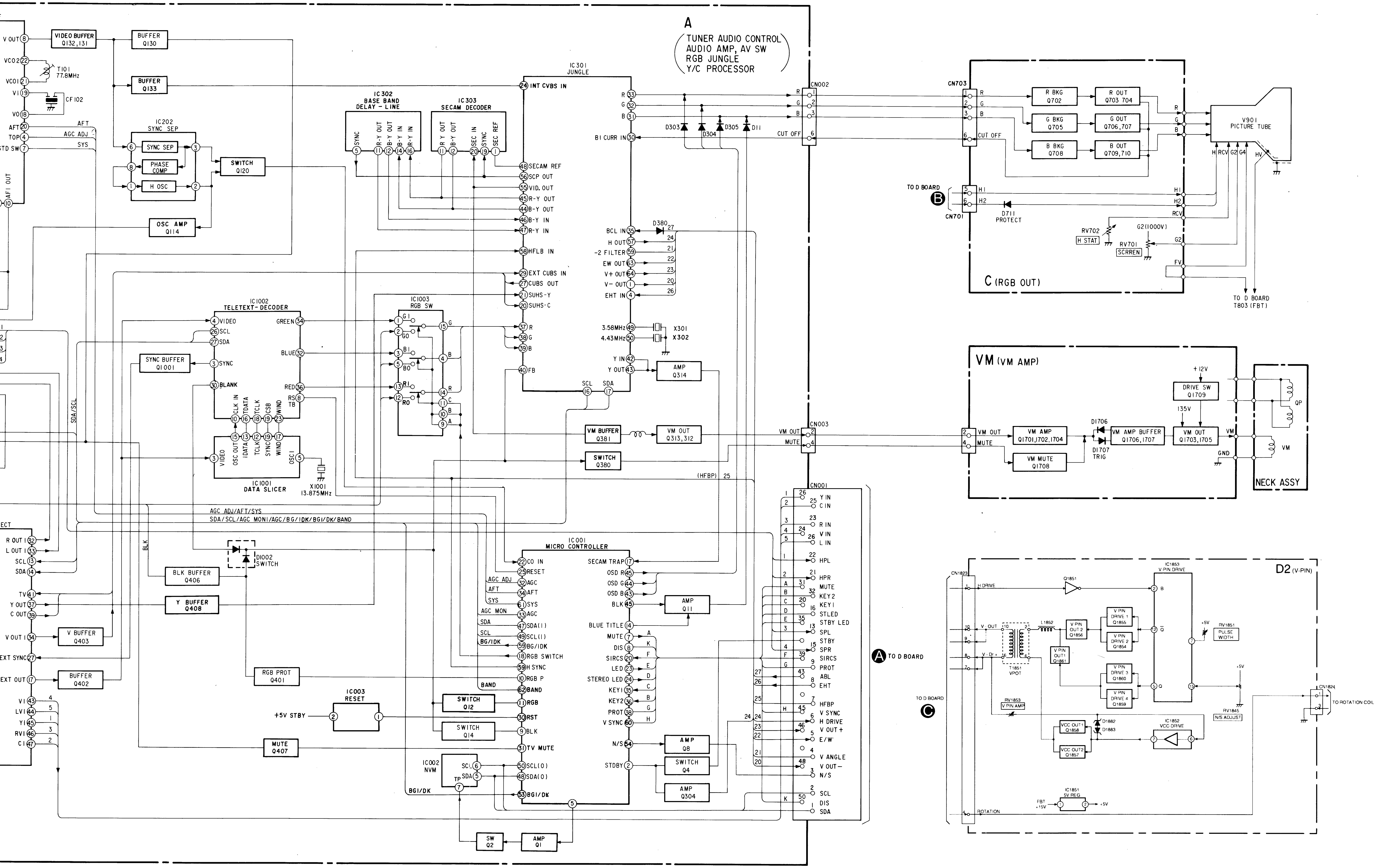
SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAM

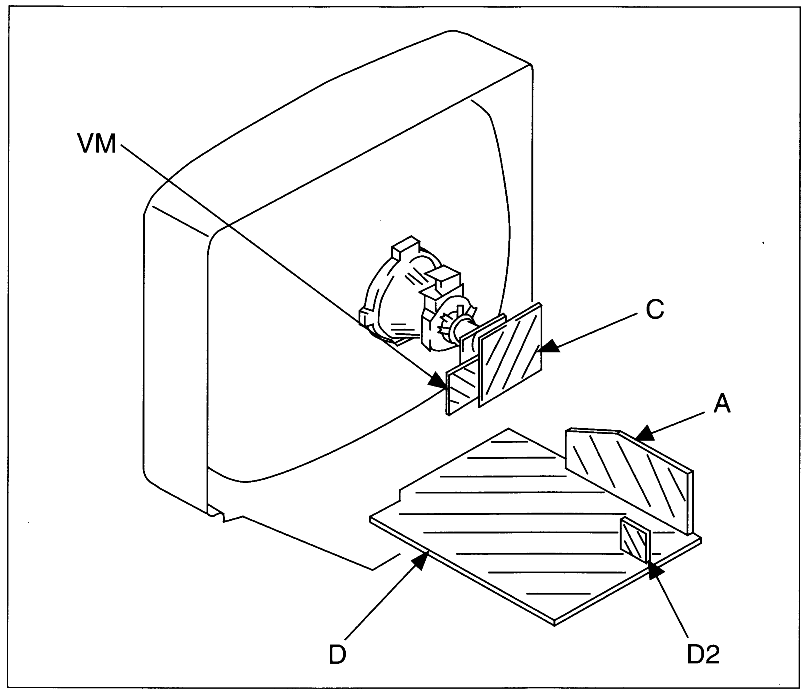

CN901
SCL
SDA
DIS
IC900 INFRARED RECEIVER
ST 5V
SWITCH Q501
D504
D505
D507
SWITCH Q503
SWITCH Q502
IC500 V OUT
V+ I/P
F B-PLS
V OUT
Vcc OUT
V-I/P
+15V
D803 V BOOST
HV OUT PIN OUT POWER SUPPLY
D
T803 FLYBACK
D810 200V RECT
200V
135V
+B
-15V
D502 -15V RECT
-15V
D503 +15V RECT
15V
HV
TO PICTURE TUBE
FV
TO C BOARD J701 (G4)
DF
E
D809 1000V RECT
G2
H2
H1
CN804
TO C BOARD
B
CN902
SDA
DIS
SCL
N/S
V OUT-
V ANGLE
E/W
V OUT+
H DRIVE
V SYNC
HFBP
EHT
ABL
PROT
SIRCS
SPKRL
STBY
SPKRR
STEREO LED
STBY LED
KEY 2
KEY 1
MUTE
H/P R
H/P L
R IN
L IN
V IN
C IN
Y IN
TO A BOARD
A
V ANGLE
IC800 PIN CORRECTION
PIN OUT Q800, 801
D807
+135V
L805
T800 PMT
D815 H CENT
LEFT
CENTER
RIGHT
L804 HLC
D808 H CENT
CN800
V+
V-
H-
H+
DY ASSY
V DY
H DY
D618 PROTECT
SWITCH Q805
H DRIVE Q803
T804 HDT
H OUT Q802
D800 H.DUMPER
D801 H DUMPER
+9V
D900
RES
ST 5V
IC1201 HEADPHONE AMP
R
L
MUTE Q1204
MUTE Q1203
MUTE SWITCH Q1202
D1202
7.5V
D1201
B+ SWITCH Q1201
MUTE
MUTE SWITCH Q1200
L IN L OUT
R IN R OUT
IC1200 AUDIO AMP
L OUT
R OUT
CN1200
TO SPEAKER
S902
S901
S900
D619 PROTECT
+15V
RELAY DRIVE Q607
RY600
D622 AT SW OFF
POWER OFF SWITCH Q605,606,D617,625
IC602 ERR-AMP
REG
+135V
+33V
HP L
HP R
MUTE SW
J900
HEADPHONES
IC601 OPTO-COUPLER
D615
STDBY SWITCH Q602-604
D616
SOFT START Q601
D603 REF
D604
D608
D626
D609 135V RECT
Y
C
CN900 S-VIDEO
VIDEO
R
L
S601 POWER
CN603
AC IN
F601
LF600 LF601 L.F.T
MAIN RECT D600
T601 SRT
IC605
12V REG
12V
IC606
9V REG
9V
+15V
D612 15V RECT
D610 7.5V RECT
7.5V
IC604
5V REG
STDBY 5V
D611 7.5V RECT
D613 +21V RECT
+21V
5V REG
5V
IC603
D614 -21V RECT
-21V
CN601
DGC
THP600
D601
D606
D605
INH
F/B
OCP
Vcc
B
D IN
D OUT
IC600 POWER CONTROL
D607
DGC CHECK
CN600
H DRIVE
V PIN
V-OUT
V-DV+
TO D2 BOARD
C
CN801
RF IN
IF
VC
TU101
-33V
D101 30V PEG
IF BUFFER Q102
D102
SWITCH Q103
SWITCH Q104,105
BAND
SCL
SDA
AGC MONI
SWITCH Q134
D103
AGC DEFEAT
D108
CF107
BG1/DK
SWITCH Q126,128
BG/IDK
IC1101 NICAM-DECODER
FML
FMR
MIXREF
DQPSK
OPL
OPR
CLK LPF
XTAL
OSC
SCL
SDA
R OUT
R IN
L OUT
L IN
B
MODE
G
R
BLK
V OUT
V IN
J401 1/2
J401 2/2
C IN
VIDEO BUFFER Q404


D
HV OUT
PIN OUT
POWER SUPPLY
T803
FLYBACK
D810
200V RECT
D502
-15V RECT
D503
+15V RECT
HV
TO PICTURE TUBE
FV
TO C BOARD
J701 (G4)
D809
1000V RECT
CN804
TO C BOARD
B
CN800
V DY
H DY
DY ASSY
CN1200
L OUT
R OUT
TO SPEAKER
IC1200
AUDIO AMP
MUTE
SWITCH
Q1201
MUTE SWITCH
Q1200
HP L
HP R
MUTE SW
J900
HEADPHONES
CN900
S-VIDEO
VIDEO
R
L
POWER OFF SWITCH
Q605,606,D617,625
IC602
ERR-AMP
REG
+135V
+33V
IC605
12V REG
12V
IC606
9V REG
9V
IC604
5V REG
STDBY 5V
IC603
5V REG
5V
H DRIVE
V PIN
V-OUT
V-DV+
TO D2 BOARD
C
CN801


RF IN
TU101
IF BUFFER
Q102
D102
SAWF
SWF101
SAWF
SWF102
SWITCH
Q103
SWITCH
Q104,105
D101
30V FEG
-33V
BAND
SCL
SDA
AGC MONI
SWITCH
Q134
BUFFER
Q107
IC101
VIF/SIF
VIDEO BUFFER
Q132,131
T101
77.8MHz
CF102
AFT
AGC ADJ
SYS
BUFFER
Q130
BUFFER
Q133
AGC DEFEAT
D103
D108
CF103
CF104
CF106
CF107
BGI/DK
BG/IDK
SWITCH
Q126,128
SWITCH
Q116,117
SWITCH
Q123,124,127
IC202
SYNC SEP
SYNC SEP
PHASE COMP
H OSC
SWITCH
Q120
OSC AMP
Q114
IC302
BASE BAND
DELAY - LINE
IC303
SECAM DECODER
IC201
STEREO-DECODER
BUFFER
Q108
BUFFER
Q109
IC1101
NICAM-DECODER
X1101
8.192MHz
IC1002
TELETEXT-DECODER
SYNC BUFFER
Q1001
IC1001
DATA SLICER
X1001
13.875MHz
IC1003
RGB SW
AGC ADJ/AFT/SYS
SDA/SCL/AGC MONI/AGC/BG/IDK/BGI/DK/BAND
IC401
A/V SELECT
J401
1/2
J401
2/2
BLK BUFFER
Q406
Y BUFFER
Q408
D1002
SWITCH
V BUFFER
Q403
BUFFER
Q402
RGB PROT
Q401
IC003
RESET
+5V STBY
SWITCH
Q12
SWITCH
Q14
MUTE
Q407
IC002
NVM
VIDEO BUFFER
Q404
SW
Q2


A
TUNER AUDIO CONTROL
AUDIO AMP, AV SW
RGB JUNGLE
Y/C PROCESSOR
VIDEO BUFFER Q132,131
BUFFER Q130
BUFFER Q133
T101 77.8MHz
CF102
IC202 SYNC SEP
SYNC SEP
PHASE COMP
H OSC
SWITCH Q120
OSC AMP Q114
IC302 BASE BAND DELAY - LINE
IC303 SECAM DECODER
IC301 JUNGLE
INT CVBS IN
SECAM REF
SCP OUT
VID. OUT
R-Y OUT
B-Y OUT
B-Y IN
R-Y IN
HFLB IN
EXT CUBS IN
CUBS OUT
SUHS-Y
SUHS-C
BI CURR IN
D303 D304 D305 D11
D380
BCL IN
H OUT
-2 FILTER
EW OUT
V+ OUT
V- OUT
EHT IN
3.58MHz
4.43MHz
X301
X302
Y IN
Y OUT
AMP Q314
IC1002 TELETEXT-DECODER
IC1003 RGB SW
IC1001 DATA SLICER
X1001 13.875MHz
SYNC BUFFER Q1001
VM BUFFER Q381
VM OUT Q313,312
SWITCH Q380
CN002
CN003
CN001
CUT OFF
VM OUT
MUTE
IC001 MICRO CONTROLLER
SECAM TRAP
OSD R
OSD G
OSD B
BLK
BLUE TITLE
MUTE
DIS
SIRCS
LED
STEREO LED
KEY1
KEY2
PROT
V SYNC
N/S
STDBY
AMP Q11
AMP Q8
SWITCH Q4
AMP Q304
D1002 SWITCH
BLK BUFFER Q406
Y BUFFER Q408
V BUFFER Q403
BUFFER Q402
RGB PROT Q401
IC003 RESET
+5V STBY
SWITCH Q12
SWITCH Q14
MUTE Q407
IC002 NVM
SW Q2
AMP Q1
AGC ADJ/AFT/SYS
SDA/SCL/AGC MONI/AGC/BG/IDK/BGI/DK/BAND
SDA/SCL
BLK
(HFBP) 25
Y IN
C IN
R IN
V IN
L IN
HPL
HPR
MUTE
KEY2
KEY1
STLED
STBY LED
SPL
STBY
SPR
SIRCS
PROT
ABL
EHT
HFBP
V SYNC
H DRIVE
V OUT +
E/W
V ANGLE
V OUT -
N/S
SCL
DIS
SDA
A TO D BOARD
CN703
CN701
R BKG Q702
G BKG Q705
B BKG Q708
R OUT Q703 704
G OUT Q706,707
B OUT Q709,710
V901 PICTURE TUBE
TO D BOARD
B
D711 PROTECT
RV702 H STAT
RV701 SCRREN
G2(1000V)
C (RGB OUT)
TO D BOARD T803 (FBT)
VM (VM AMP)
VM AMP Q1701,1702,1704
VM MUTE Q1708
D1706
D1707 TRIG
VM AMP BUFFER Q1706,1707
DRIVE SW Q1709
+12V
135V
VM OUT Q1703,1705
NECK ASSY
QP
VM
D2 (V-PIN)
CN1823
H DRIVE
Q1851
IC1853 V PIN DRIVE
V OUT
T1851 VPOT
L1852
V PIN OUT 2 Q1856
V PIN OUT1 Q1861
V PIN DRIVE 1 Q1855
V PIN DRIVE 2 Q1854
V PIN DRIVE 3 Q1860
V PIN DRIVE 4 Q1859
RV1851 PULSE WIDTH
RV1853 V PIN AMP
RV1845 N/S ADJUST
VCC OUT1 Q1858
VCC OUT2 Q1857
D1882 D1883
IC1852 VCC DRIVE
IC1851 5V REG
FBT +15V
+5V
ROTATION
CN1824
TO ROTATION COIL
C TO D BOARD

5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.
  k = 1000 , M = 1000K
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5 mm
Rating electrical power ¼ W

- ⋀⋀⋀ : nonflammable resistor.
- △ : internal component.
- ▭ : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- ⊥ : earth - ground.
- ⏚ : earth - chassis.
- ⌗ : no mounted.

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part number specified.

Note : Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: ✕	ADJUSTABLE RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

- Readings are taken with a colour-bar signal input.
- Readings are taken with 10M digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.
- ▬ : B+ bus.
- ⋯ : signal path. (RF)

D

— D

A

B

C

D

E

F

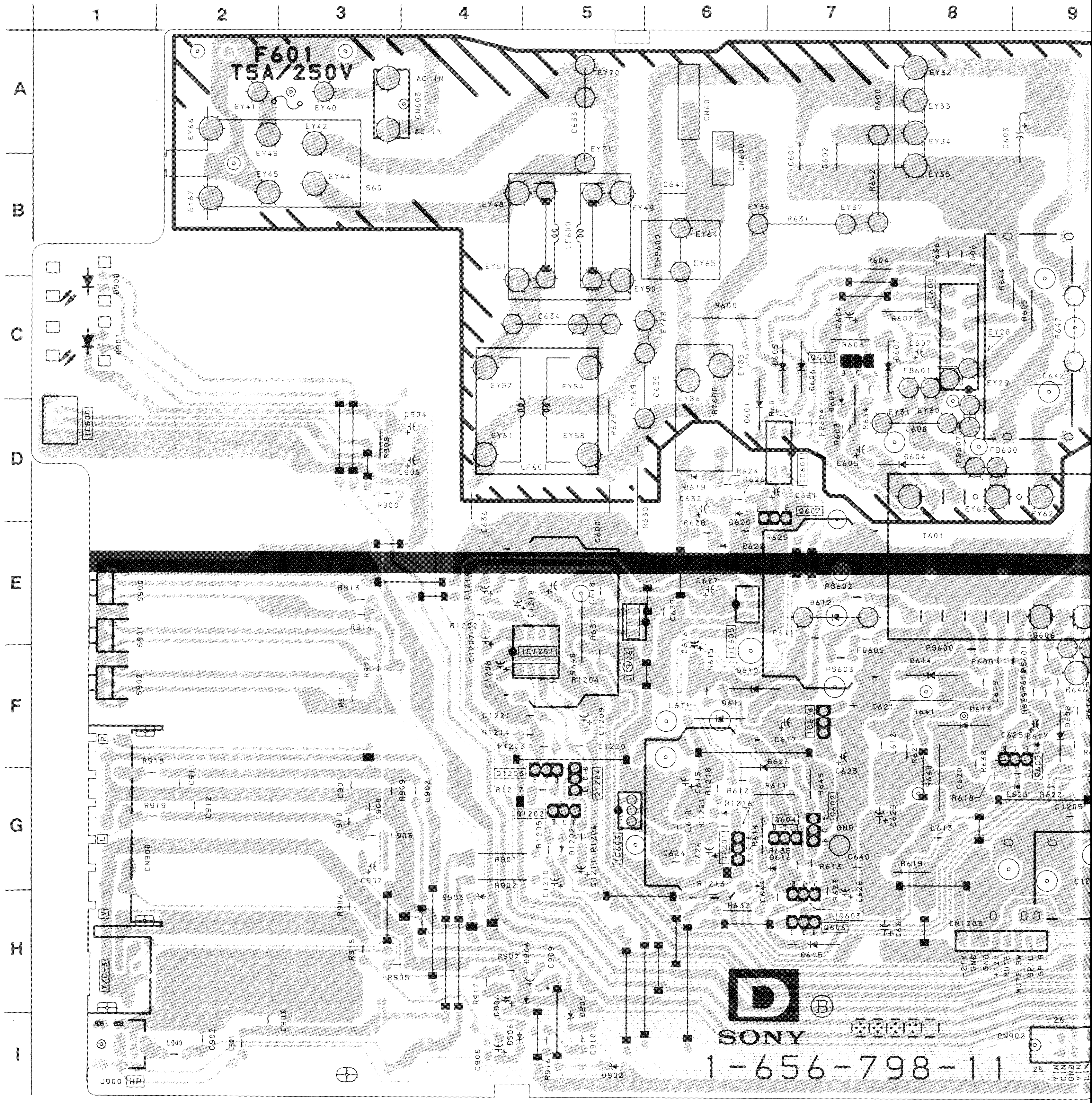
G

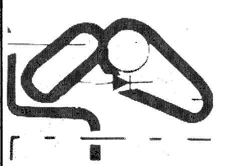
H

I

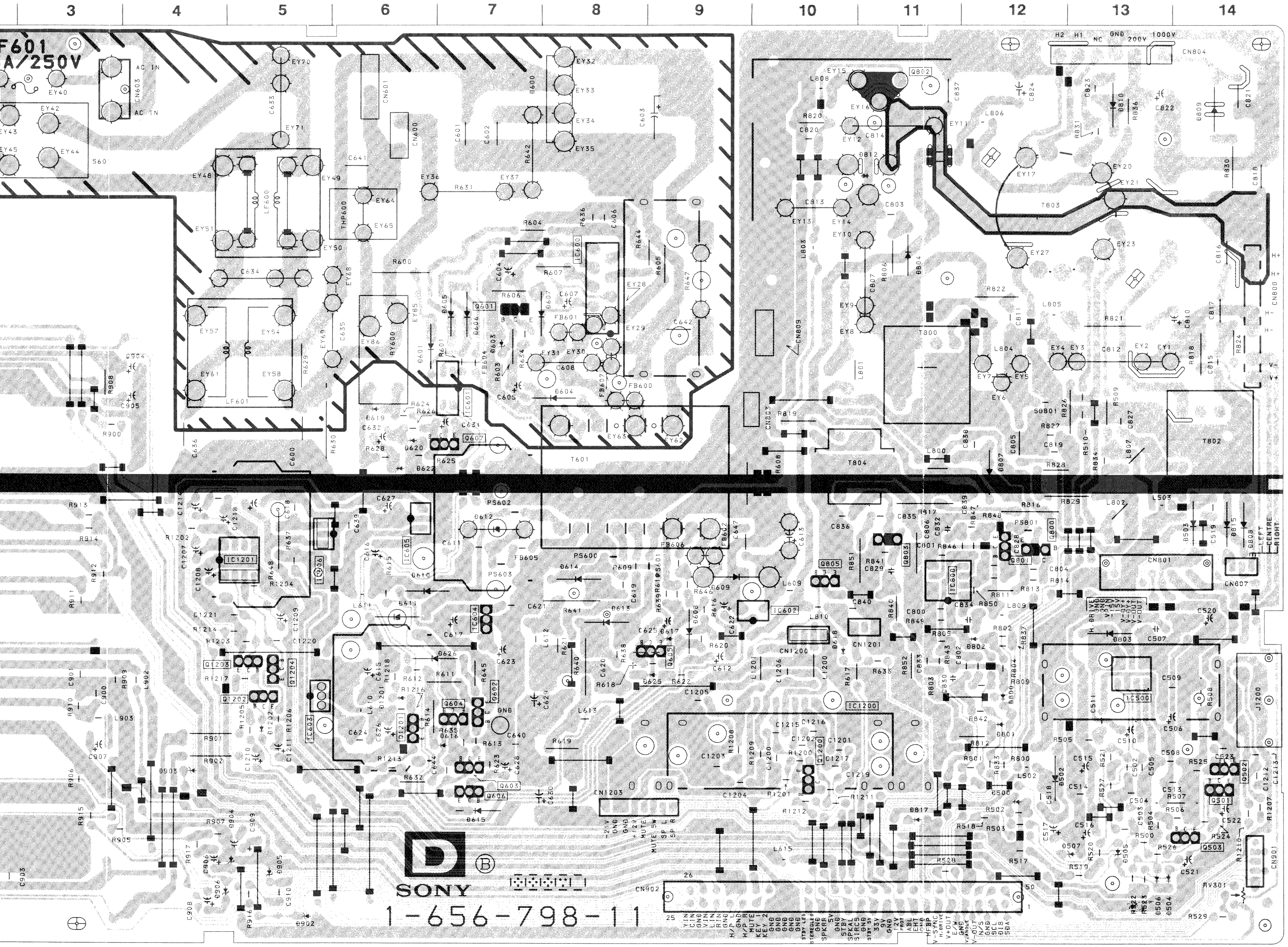
D [HV OUT
PIN OUT
POWER SUPPLY]

— D BOARD —


1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
G
H
I
F601
T5A/250V
AC IN
CN603
S60
LF600
LF601
THP600
RY600
T601
IC1201
IC603
IC604
IC601
IC600
IC900
CN900
CN1203
CN902
PS600
PS602
PS603
J900
HP
V/C-3
GND
D
SONY
1-656-798-11

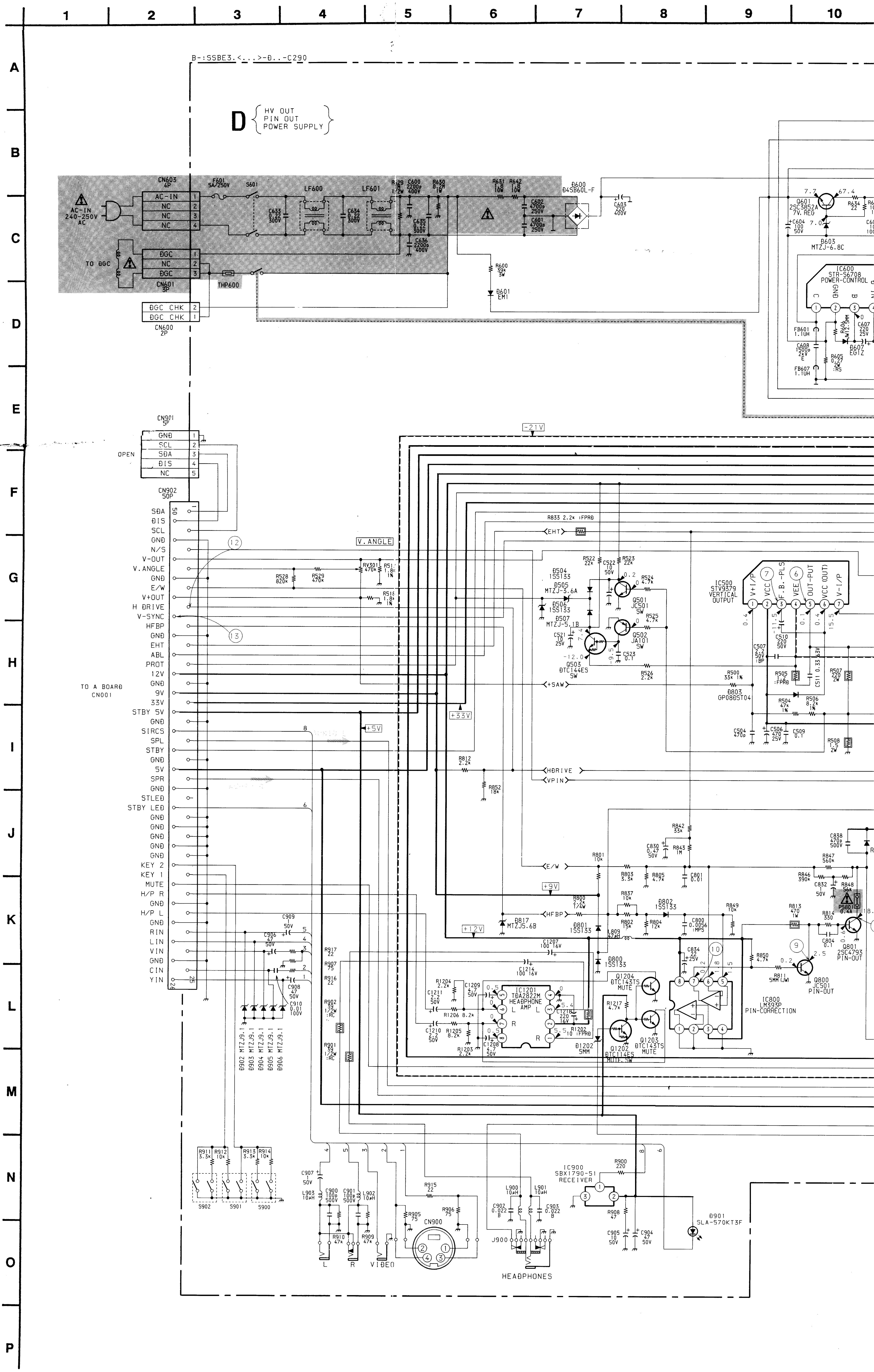


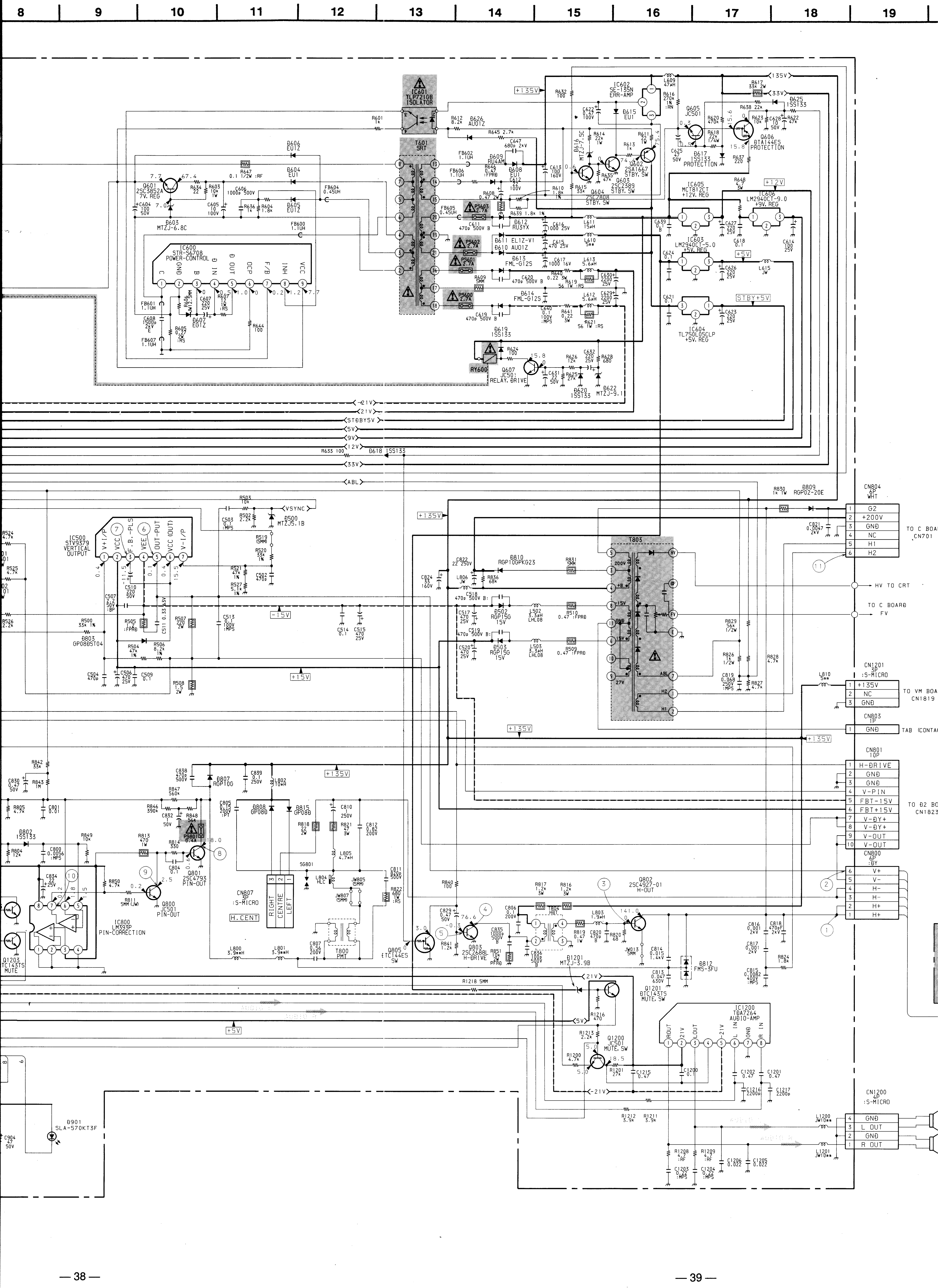
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

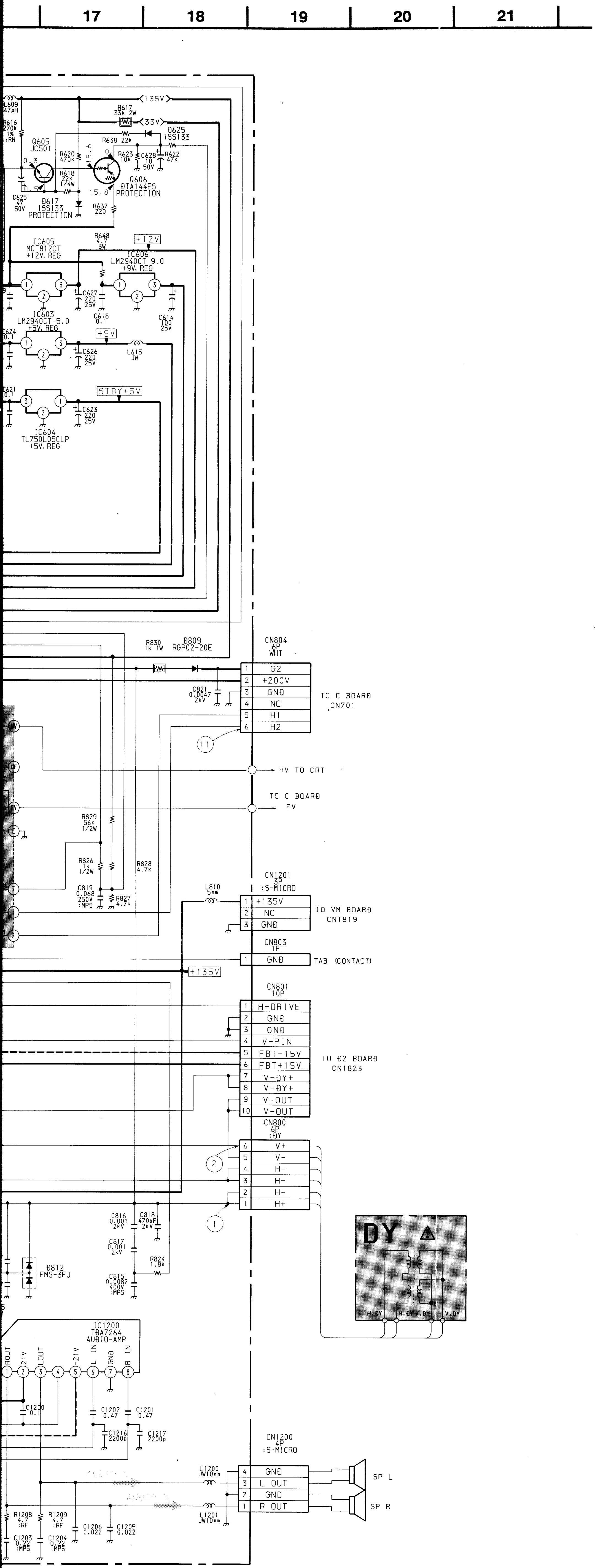

3
4
5
6
7
8
9
10
11
12
13
14
F601
A/250V
AC IN
AC IN
D
SONY
1-656-798-11
CN902
CN1203
CN901
T601
T800
T802
T803
T804
IC1200
IC500
RV301

— D BOARD —

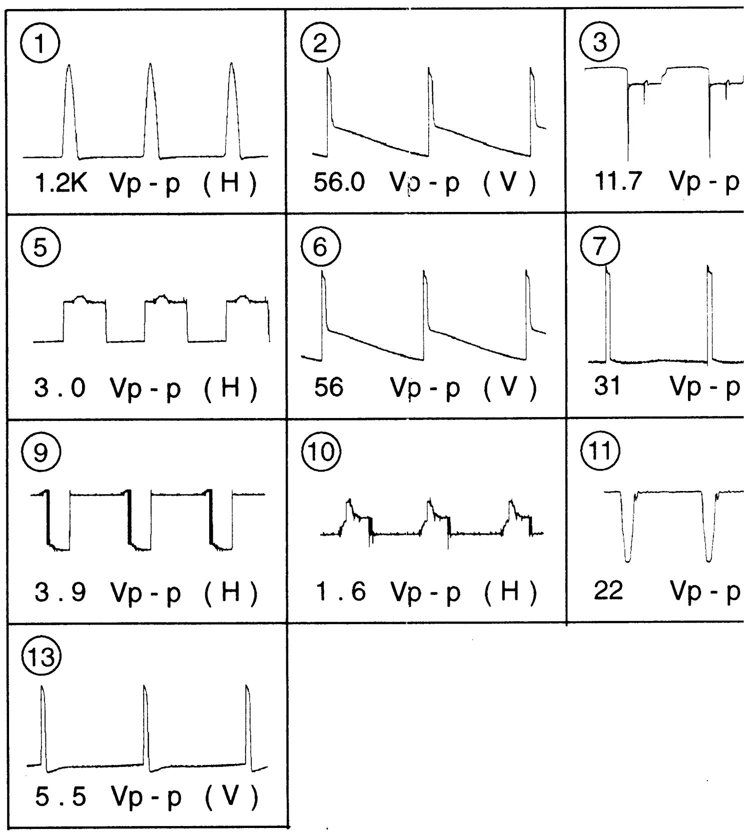
IC	
IC500	G-13
IC600	C-8
IC601	D-7
IC602	F-10
IC603	G-5
IC604	F-7
IC605	E-6
IC606	F-5
IC800	F-12
IC1200	G-11
IC1201	F-5
TRANSISTOR	
Q501	H-14
Q502	H-14
Q503	H-14
Q601	C-7
Q602	G-7
Q603	H-7
Q604	G-7
Q605	G-9
Q606	H-7
Q607	D-7
Q800	E-12
Q801	F-12
Q802	A-11
Q803	E-11
Q805	F-10
Q1200	H-10
Q1201	G-6
Q1202	G-5
Q1203	G-5
Q1204	G-5
DIODE	
D500	H-12
D502	H-13
D503	E-14
D504	I-14
D505	H-13
D506	I-14
D507	H-13
D600	A-8
D601	D-6
D603	D-7
D604	D-8
D605	C-7
D606	C-7
D607	C-8
D608	F-9
D609	F-9
D610	F-6
D611	F-6
D612	E-7
D613	F-8
D614	F-8
D615	H-7
D616	G-7
D617	F-9
D618	F-10
D619	D-6
D620	E-6
D622	E-6
D625	G-9
D626	G-7
D800	G-12
D801	G-12
D802	F-12
D803	F-13
D807	E-12
D808	E-14
D809	A-14
D810	A-13
D812	B-11
D815	E-14
D817	H-11
D902	I-5
D903	H-4
D904	H-5
D905	I-5
D906	I-5
D1201	G-6
VARIABLE RESISTOR	
RV301	I-14


B-:SSBE3.<...>-D..-C290
D
HV OUT
PIN OUT
POWER SUPPLY
CN603 4P
AC-IN
NC
NC
NC
AC-IN 240-250V AC
TO DGC
DGC
NC
DGC
CN601 3P
DGC CHK
DGC CHK
CN600 2P
F601 5A/250V
S601
LF600
LF601
THP600
C633 0.22 300V
C634 0.22 300V
R629 1M 1/2W
C600 2200p 400V
R630 8.2M 1W
C635 0.22 300V
C636 2200p 400V
R631 1.8 10W
R642 1.8 10W
C602 4700p 250V
C601 4700p 250V
D600 D4SB60L-F
C603 220 400V
R600 39k 3W
D601 EMI
Q601 2SC3852A 7V.REG
C604 100 50V
D603 MTZJ-6.8C
IC600 STR-S6708 POWER-CONTROL
FB601 1.1UH
FB607 1.1UH
C608 1500p 2kV
R605 0.27 2W
C607 220 25V
D607 EGIZ
CN901 5P
GND
SCL
SDA
DIS
NC
OPEN
CN902 50P
SDA
DIS
SCL
GND
N/S
V-OUT
V.ANGLE
GND
E/W
V+OUT
H DRIVE
V-SYNC
HFBP
GND
EHT
ABL
PROT
12V
GND
9V
33V
STBY 5V
GND
SIRCS
SPL
STBY
GND
5V
SPR
GND
STLED
STBY LED
GND
GND
GND
GND
GND
KEY 2
KEY 1
MUTE
H/P R
GND
H/P L
GND
RIN
LIN
VIN
GND
CIN
YIN
TO A BOARD CN001
V.ANGLE
R528 820k
R529 470k
RV301 470k
-21V
+33V
+5V
+9V
+12V
R833 2.2k :FPRD
EHT
D504 1SS133
D505 MTZJ-3.6A
D506 1SS133
D507 MTZJ-5.1B
R522 22k
C522 10 50V
R523 22k
R524 4.7k
Q501 JC501 SW
R525 4.7k
Q502 JA101 SW
Q503 DTC144ES SW
C521 10 25V
C523 0.1
R526 2.2k
+SAW
IC500 STV9379 VERTICAL OUTPUT
V+I/P
VCC
F.B.-PLS
VEE
OUT-PUT
VCC (OUT)
V-I/P
C507 2.2 50V :BP
C510 220 50V
C511 0.33 63V
R505 1.2 :FPRD
R507 220 2W
R500 33k 1%
D803 GP08DST04
R504 47k 1%
R506 8.2k 1%
C504 470p
C506 470 25V
C509 0.1
R508 1.5 2W
R812 2.2k
R852 18k
HDRIVE
VPIN
R842 33k
C830 0.47 50V
R843 1M
R801 10k
E/W
R803 3.3k
R805 4.7k
C801 0.01
R800 2.2k 1/4W
R837 10k
D802 1SS133
R802 15k
R804 12k
C800 0.0056 :MPS
HFBP
D817 MTZJ5.6B
D801 1SS133
L809 47uH
D800 1SS133
R849 10k
C834 22 25V
IC800 LM393P PIN-CORRECTION
C838 470p 500V
R847 560k
R846 390k
C832 1 50V
R848 56k
R813 470 1W
R814 330
P580 0.4A
C804 0.1
Q801 2SC4793 PIN-OUT
R850 4.7k
R811 5MM (JW)
Q800 JC501 PIN-OUT
C1207 100 16V
C1214 100 16V
R1204 2.2k
C1211 2.2 50V
C1209 4.7 50V
IC1201 TDA2822M HEADPHONE AMP
R1206 8.2k
C1210 2.2 50V
R1205 8.2k
R1203 2.2k
C1208 4.7 50V
C1218 220 16V
R1202 10 :FPRD
Q1204 DTC143TS MUTE
R1217 4.7k
Q1203 DTC143TS MUTE
Q1202 DTC114ES MUTE.SW
D1202 5MM
C909 1 50V
C906 47 50V
C908 47 50V
C910 0.01 100V
D902 MTZJ9.1
D903 MTZJ9.1
D904 MTZJ9.1
D905 MTZJ9.1
D906 MTZJ9.1
R917 22
R907 75
R916 22
R902 39 1/2W :RC
R901 39 1/2W :RC
R911 3.3k
R912 10k
R913 3.3k
R914 10k
S902
S901
S900
C907 1 50V
L903 10uH
C900 100p 500V
C901 100p 500V
L902 10uH
R910 47k
R909 47k
R915 22
R905 75
R906 75
CN900
L
R
VIDEO
L900 10uH
L901 10uH
C902 0.022 B
C903 0.022 B
J900
HEADPHONES
IC900 SBX1790-51 RECEIVER
R900 220
R908 47
C905 10 50V
C904 47 50V
D901 SLA-570KT3F
1 2 3 4 5 6 7 8 9 10
A B C D E F G H I J K L M N O P

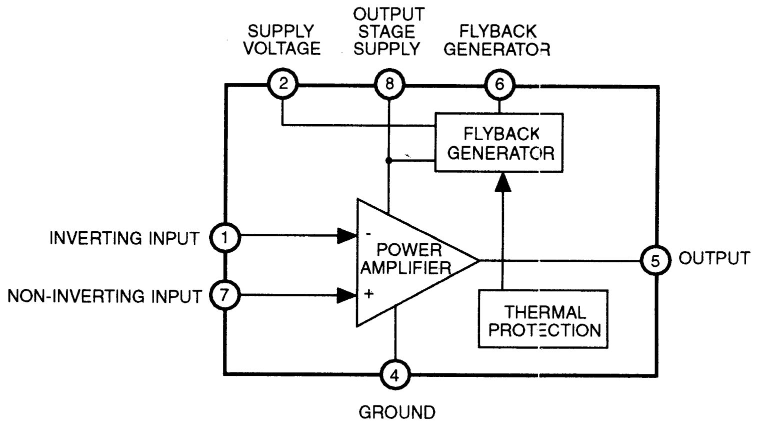

8
9
10
11
12
13
14
15
16
17
18
19
IC601 TLP721GB ISOLATOR
T601 SRT
IC600 STR-S6708 POWER-CONTROL
Q601 2SC3852A 7V. REG
D603 MTZJ-6.8C
D604 EU1
D605 EU1Z
D606 EU1Z
D607 EG1Z
FB600 1.1UH
FB601 1.1UH
FB604 0.45UH
FB607 1.1UH
IC602 SE-135N ERR-AMP
Q602 2SA1667 STBY. SW
Q603 2SC2389 STBY. SW
Q604 2SC2808 STBY. SW
Q605 JC501
Q606 DTA144ES PROTECTION
D617 1SS133 PROTECTION
IC605 MCT812CT +12V. REG
IC606 LM2940CT-9.0 +9V. REG
IC603 LM2940CT-5.0 +5V. REG
IC604 TL750L05CLP +5V. REG
PS600 2.7A
PS601 2.7A
PS602 2.7A
PS603 2.7A
D612 RU3YX
D611 EL1Z-V1
D610 AU01Z
D613 FML-G12S
D614 FML-G12S
D619 1SS133
RY600
Q607 JC501 RELAY. DRIVE
D620 1SS133
D622 MTZJ-9.1
+135V
135V
33V
+12V
+5V
STBY+5V
-21V
21V
STBY5V
5V
9V
12V
R633 100
D618 1SS133
33V
ABL
VSYNC
D500 MTZJ5.1B
IC500 STV9379 VERTICAL OUTPUT
V+I/P
VCC
F.B.-PLS
VEE
OUT-PUT
VCC (OUT)
V-I/P
D803 GP08BST04
-15V
+15V
T803
D810 RGP10GPKG23
D502 RGP15G 15V
D503 RGP15G 15V
L502 3.3μH LHL08
L503 3.3μH LHL08
HV
FV
ABL
H2
H1
R830 1k 1W
D809 RGP02-20E
CN804 6P WHT
G2
+200V
GND
NC
H1
H2
TO C BOARD CN701
HV TO CRT
TO C BOARD FV
CN1201 3P :S-MICRO
+135V
NC
GND
TO VM BOARD CN1819
CN803 1P
GND
TAB (CONTACT)
CN801 10P
H-DRIVE
GND
GND
V-PIN
FBT-15V
FBT+15V
V-DY+
V-DY+
V-OUT
V-OUT
TO D2 BOARD CN1823
CN800 6P :DY
V+
V-
H-
H-
H+
H+
D807 RGP10G
D808 GP08D
D815 GP08D
PS801 0.4A
Q801 2SC4793 PIN-OUT
Q800 JC501 PIN-OUT
IC800 LM393P PIN-CORRECTION
D802 1SS133
Q1203 DTC143TS MUTE
CN807 3P :S-MICRO
RIGHT
CENTRE
LEFT
H.CENT
T800 PMT
Q805 DTC144ES SW
Q803 2SC2688L H-DRIVE
T804 HDT
Q802 2SC4927-01 H-OUT
D1201 MTZJ-3.9B
D812 FMS-3FU
Q1201 DTC143TS MUTE. SW
Q1200 JC501 MUTE. SW
IC1200 TDA7264 AUDIO-AMP
ROUT
21V
LOUT
-21V
L IN
GND
R IN
CN1200 4P :S-MICRO
GND
L OUT
GND
R OUT
D901 SLA-570KT3F
R1218 5MM
AUDIO L
AUDIO R


17
18
19
20
21
135V
33V
R617 33k 2W
R638 22k
D625 1SS133
Q605 JC501
R620 470k
R623 10k
C628 10 50V
R622 47k
R618 22k 1/4W
Q606 DTA144ES PROTECTION
C625 47 50V
D617 1SS133 PROTECTION
R637 220
IC605 MCT812CT +12V. REG
R648 4.7 3W
+12V
IC606 LM2940CT-9.0 +9V. REG
C627 220 25V
C618 0.1
C614 100 25V
IC603 LM2940CT-5.0 +5V. REG
+5V
C626 220 25V
L615 JW
STBY+5V
C623 220 25V
IC604 TL750L05CLP +5V. REG
R830 1k 1W
D809 RGP02-20E
CN804 6P WHT
G2
+200V
GND
NC
H1
H2
C821 0.0047 2kV
TO C BOARD CN701
HV TO CRT
TO C BOARD FV
R829 56k 1/2W
R826 1k 1/2W
R828 4.7k
C819 0.068 250V :MPS
R827 4.7k
L810 5mm
CN1201 3P :S-MICRO
+135V
NC
GND
TO VM BOARD CN1819
CN803 1P
GND
TAB (CONTACT)
+135V
CN801 10P
H-DRIVE
GND
GND
V-PIN
FBT-15V
FBT+15V
V-DY+
V-DY+
V-OUT
V-OUT
TO D2 BOARD CN1823
CN800 6P :DY
V+
V-
H-
H-
H+
H+
C816 0.001 2kV
C818 470pF 2kV
C817 0.001 2kV
R824 1.8k
C815 0.0082 400V :MPS
D812 FMS-3FU
DY
H.DY
H.DY
V.DY
V.DY
IC1200 TDA7264 AUDIO-AMP
ROUT
-21V
LOUT
-21V
L IN
GND
R IN
C1200 0.1
C1202 0.47
C1201 0.47
C1216 2200p
C1217 2200p
CN1200 4P :S-MICRO
GND
L OUT
GND
R OUT
SP L
SP R
L1200 JW10mm
L1201 JW10mm
R1208 4.7 :RF
R1209 4.7 :RF
C1206 0.022
C1205 0.022
C1203 0.22 :MPS
C1204 0.22 :MPS

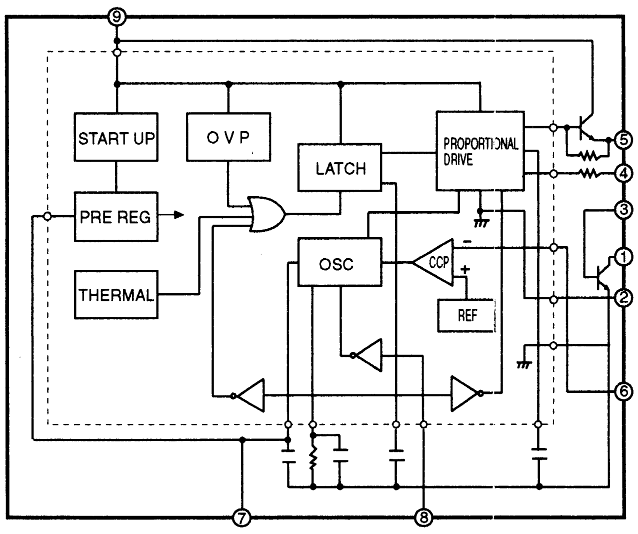
WAVEFORMS D BOARD



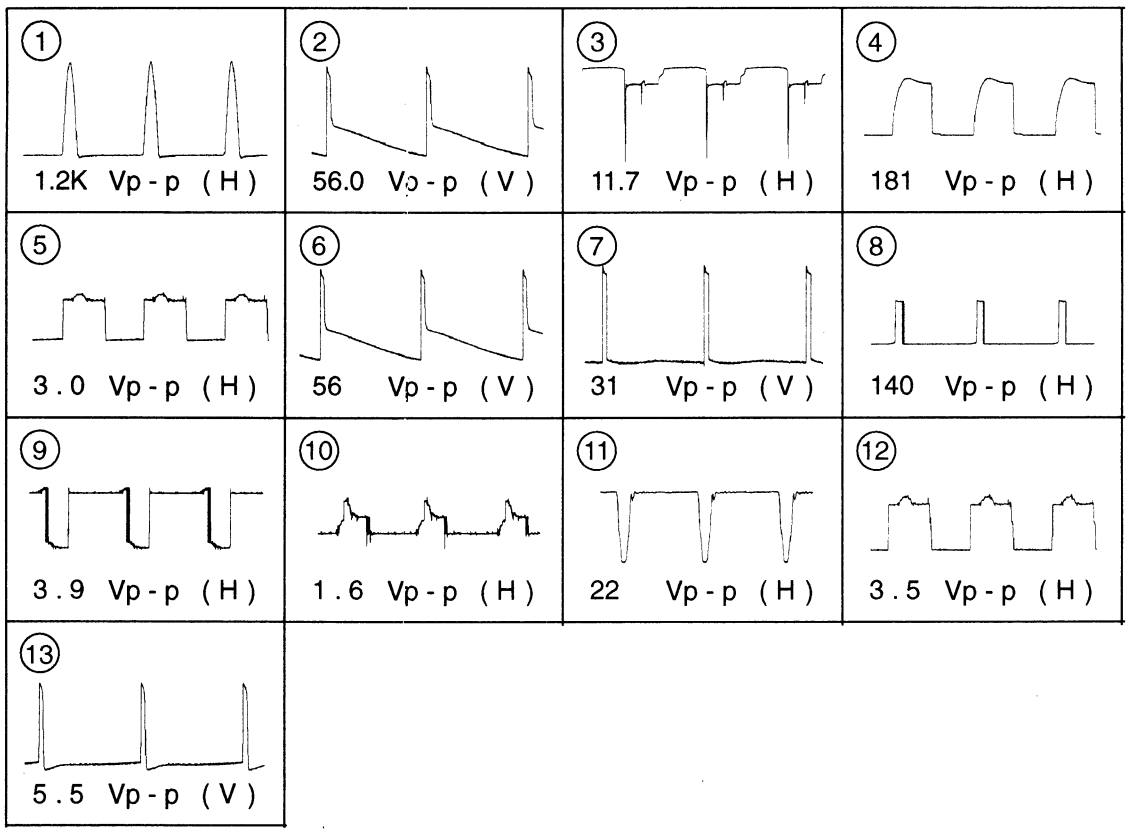
D BOARD IC500 STV9379


SUPPLY VOLTAGE
OUTPUT STAGE SUPPLY
FLYBACK GENERATOR
②
⑧
⑥
FLYBACK GENERATOR
INVERTING INPUT ①
NON-INVERTING INPUT ⑦
POWER AMPLIFIER
-
+
⑤ OUTPUT
THERMAL PROTECTION
④
GROUND

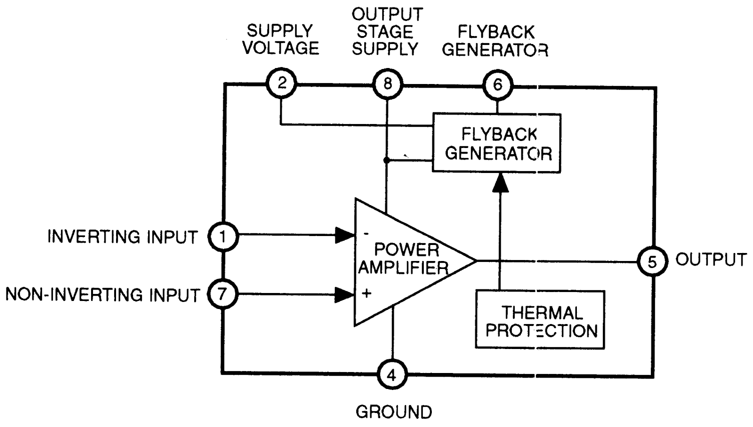
D BOARD IC600 STR-S6708


⑨
START UP
OVP
LATCH
PROPORTIONAL DRIVE
PRE REG
OSC
CCP
REF
THERMAL
⑤
④
③
①
②
⑥
⑦
⑧

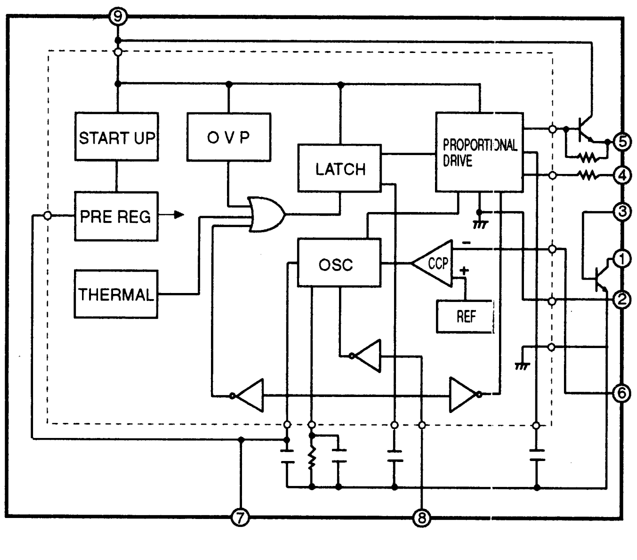
WAVEFORMS D BOARD



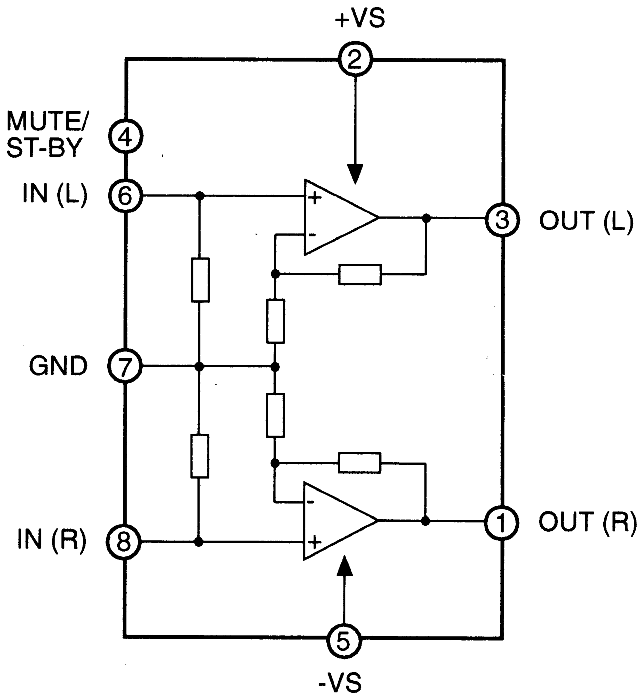
D BOARD IC500 STV9379

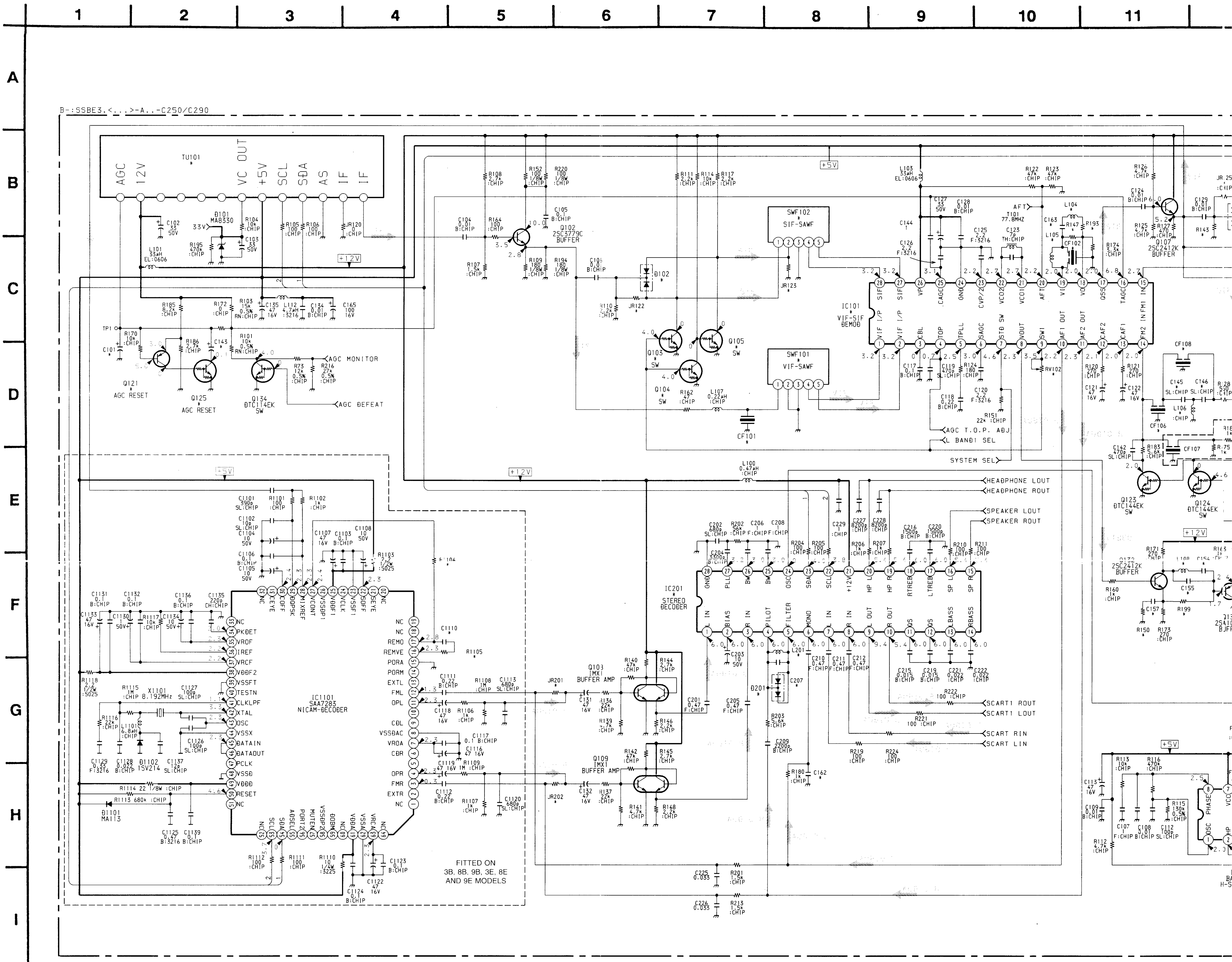

SUPPLY VOLTAGE
OUTPUT STAGE SUPPLY
FLYBACK GENERATOR
2
8
6
FLYBACK GENERATOR
INVERTING INPUT
1
NON-INVERTING INPUT
7
-
+
POWER AMPLIFIER
THERMAL PROTECTION
5
OUTPUT
4
GROUND

D BOARD IC600 STR-S6708


9
START UP
OVP
LATCH
PROPORTIONAL DRIVE
PRE REG
THERMAL
OSC
CCP
REF
5
4
3
1
2
6
7
8

D BOARD IC1200 TDA7264


+VS
2
MUTE/ ST-BY
4
IN (L)
6
+
-
3
OUT (L)
GND
7
-
+
IN (R)
8
1
OUT (R)
5
-VS


1
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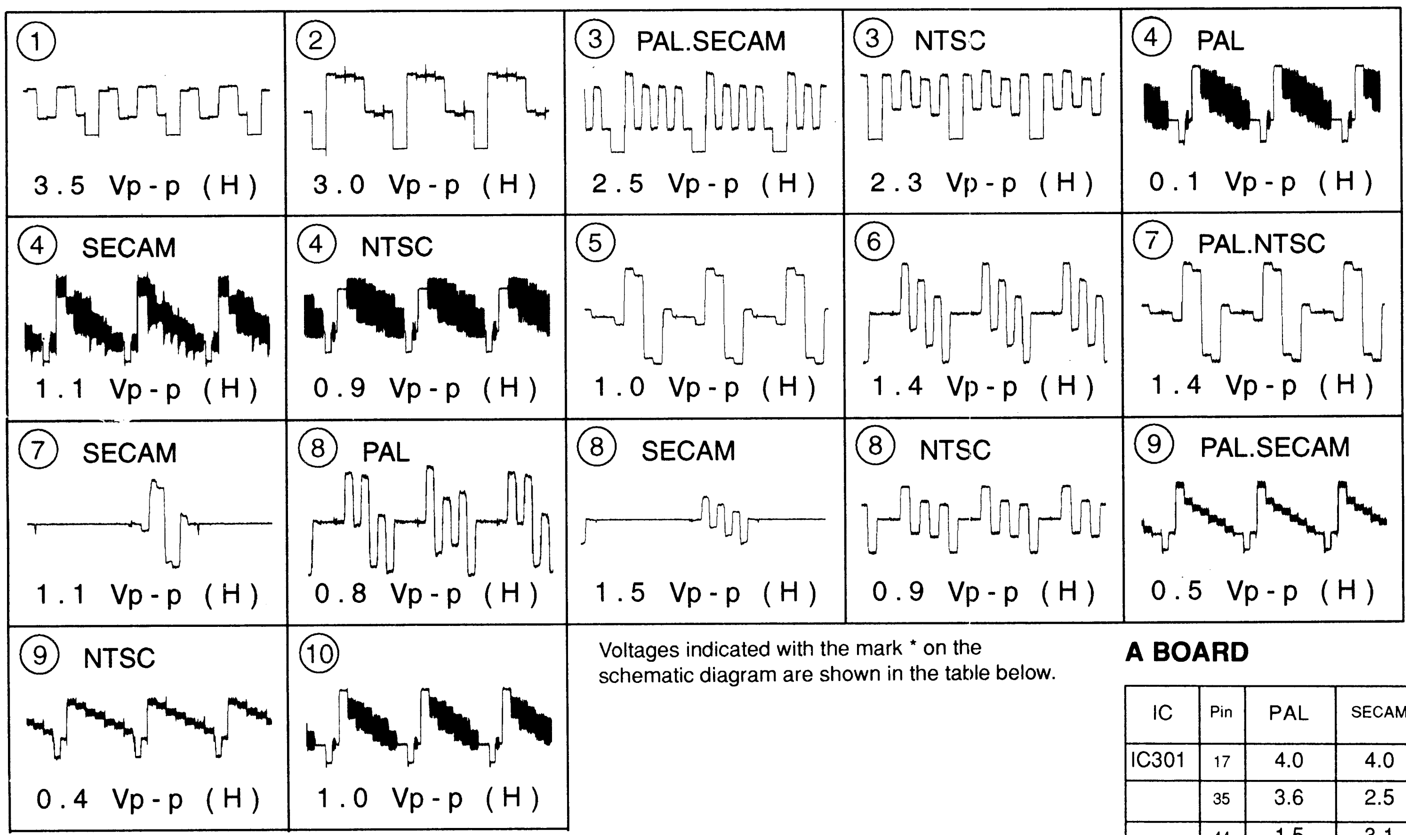
6
7
8
9
10
11
A
B
C
D
E
F
G
H
I
B-:SSBE3.<...>-A..-C250/C290
TU101
AGC
12V
VC OUT
+5V
SCL
SDA
AS
IF
IF
+12V
+5V
AGC MONITOR
AGC DEFEAT
Q121 AGC RESET
Q125 AGC RESET
Q134 DTC114EK SW
Q102 2SC3779C BUFFER
SWF102 SIF-SAWF
SWF101 VIF-SAWF
Q103 SW
Q104 SW
Q105 SW
CF101
IC101 VIF-SIF DEMOD
AGC T.O.P. ADJ
L BAND1 SEL
SYSTEM SEL
Q107 2SC2412K BUFFER
Q123 DTC144EK SW
Q124 DTC144EK SW
HEADPHONE LOUT
HEADPHONE ROUT
SPEAKER LOUT
SPEAKER ROUT
IC201 STEREO DECODER
SCART1 ROUT
SCART1 LOUT
SCART RIN
SCART LIN
Q103 (MX) BUFFER AMP
Q109 (MX) BUFFER AMP
IC1101 SAA7283 NICAM-DECODER
X1101 8.192MHz
D1101 MA113
FITTED ON 3B, 8B, 9B, 3E, 8E AND 9E MODELS
Q172 2SC2412K BUFFER

FOR VALUES OF COMPONENTS MARKED * REFER TO DIFFERENCE TABLE

WAVEFORMS A BOARD

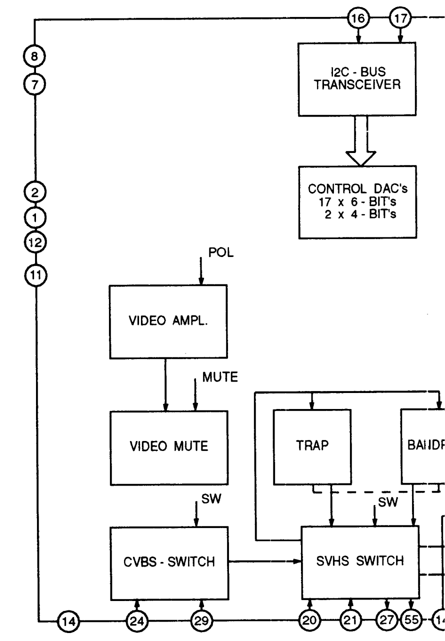


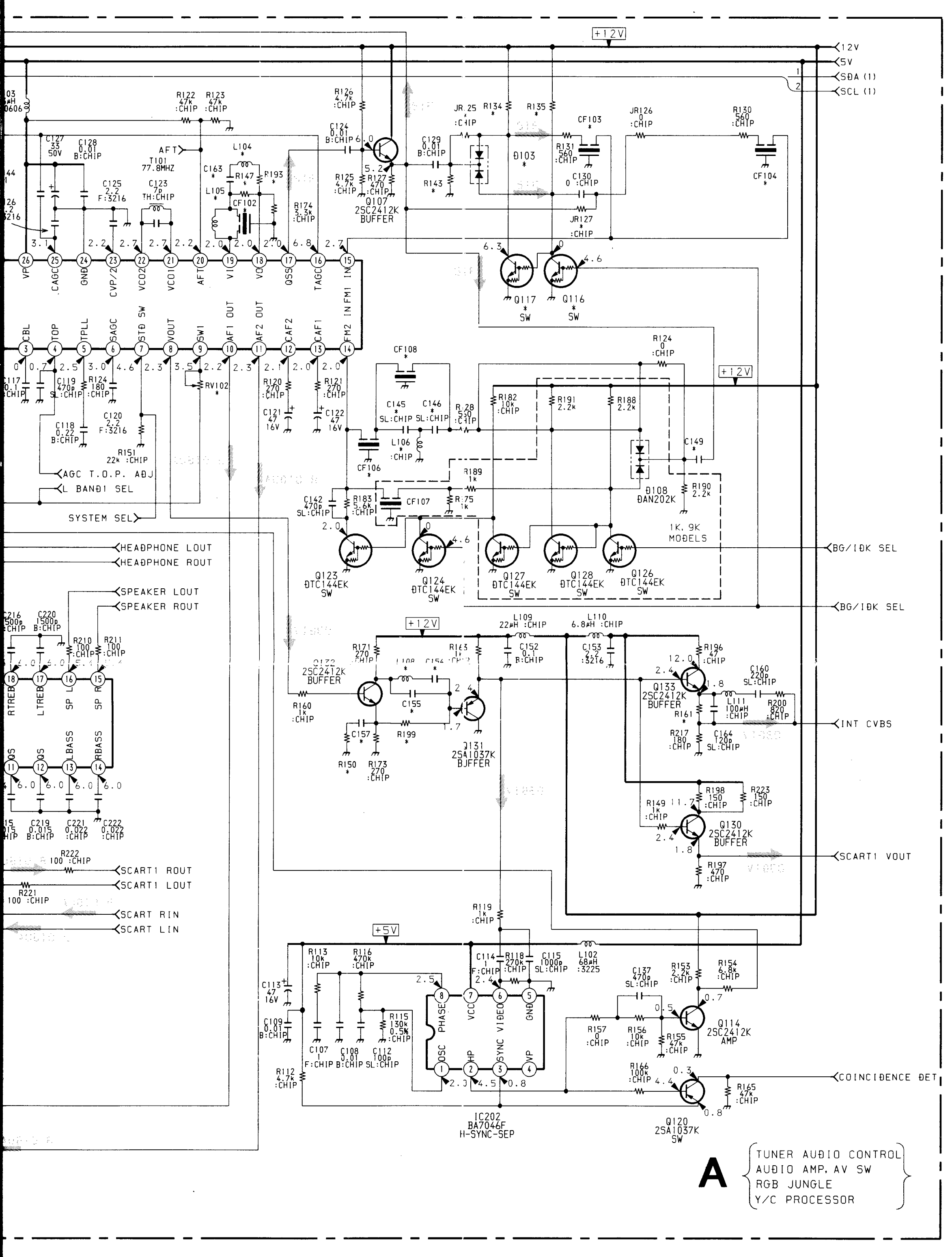
Voltages indicated with the mark * on the schematic diagram are shown in the table below.

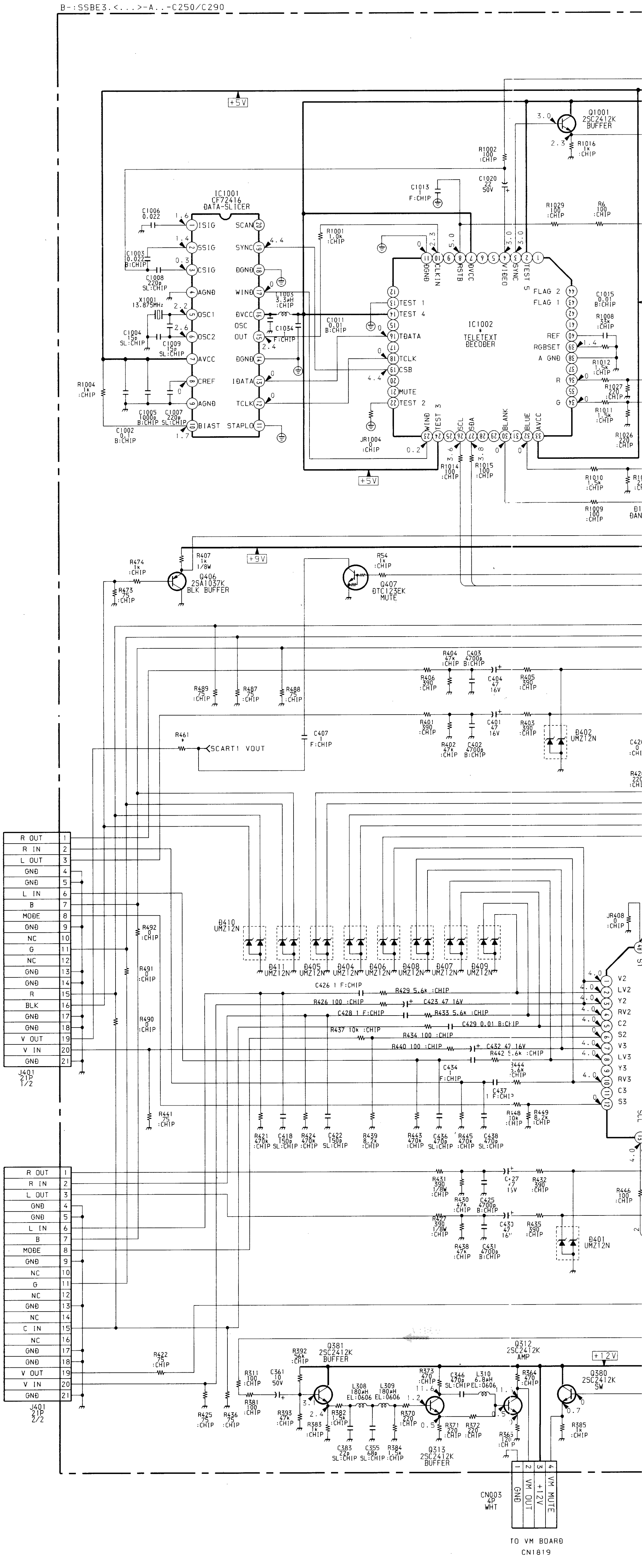
A BOARD

IC	Pin	PAL	SECAM	NTSC 3.58	NTSC 4.43
IC301	17	4.0	4.0	4.0	0
	35	3.6	2.5	3.5	3.5
	44	1.5	3.1	1.5	1.5
	45	1.5	3.0	1.5	1.5
	48	1.7	4.4	1.6	1.7
	49	1.4	1.4	2.0	1.4
	50	2.0	2.0	1.4	2.0
	63	3.4	2.5	2.2	2.5
IC303	1	1.7	4.4	1.6	1.7
	11	1.5	3.0	1.5	1.5
	12	1.5	3.1	1.5	1.5

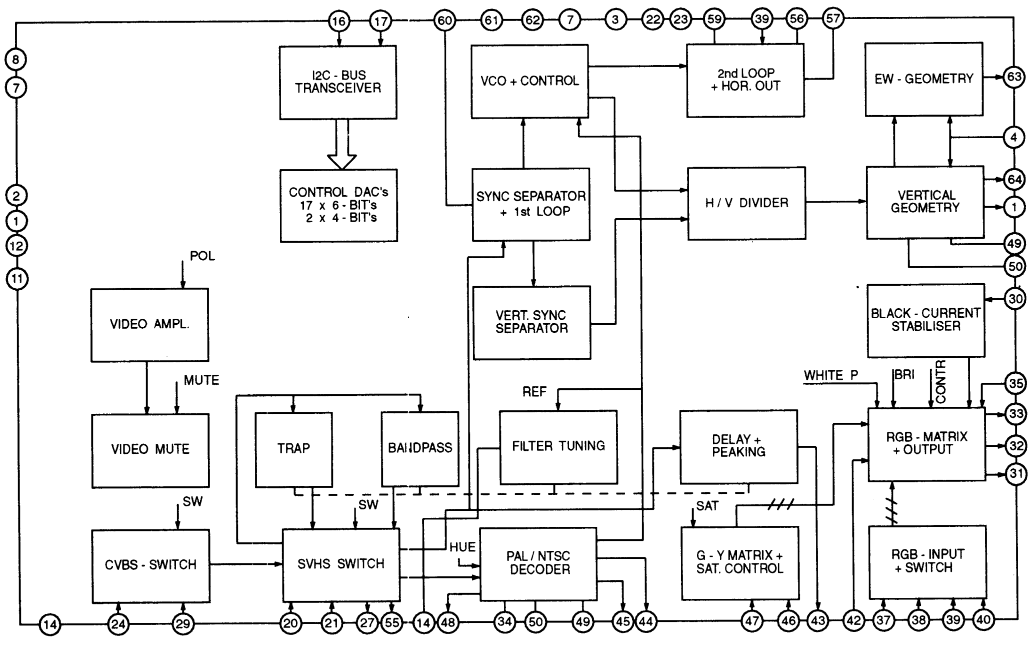
A BOARD IC301 TDA8366


I2C - BUS TRANSCEIVER
CONTROL DAC's 17 x 6 - BIT's 2 x 4 - BIT's
POL
VIDEO AMPL.
MUTE
VIDEO MUTE
SW
CVBS - SWITCH
TRAP
SW
SVHS SWITCH
16
17
8
7
2
1
12
11
14
24
29
20
21
27
55

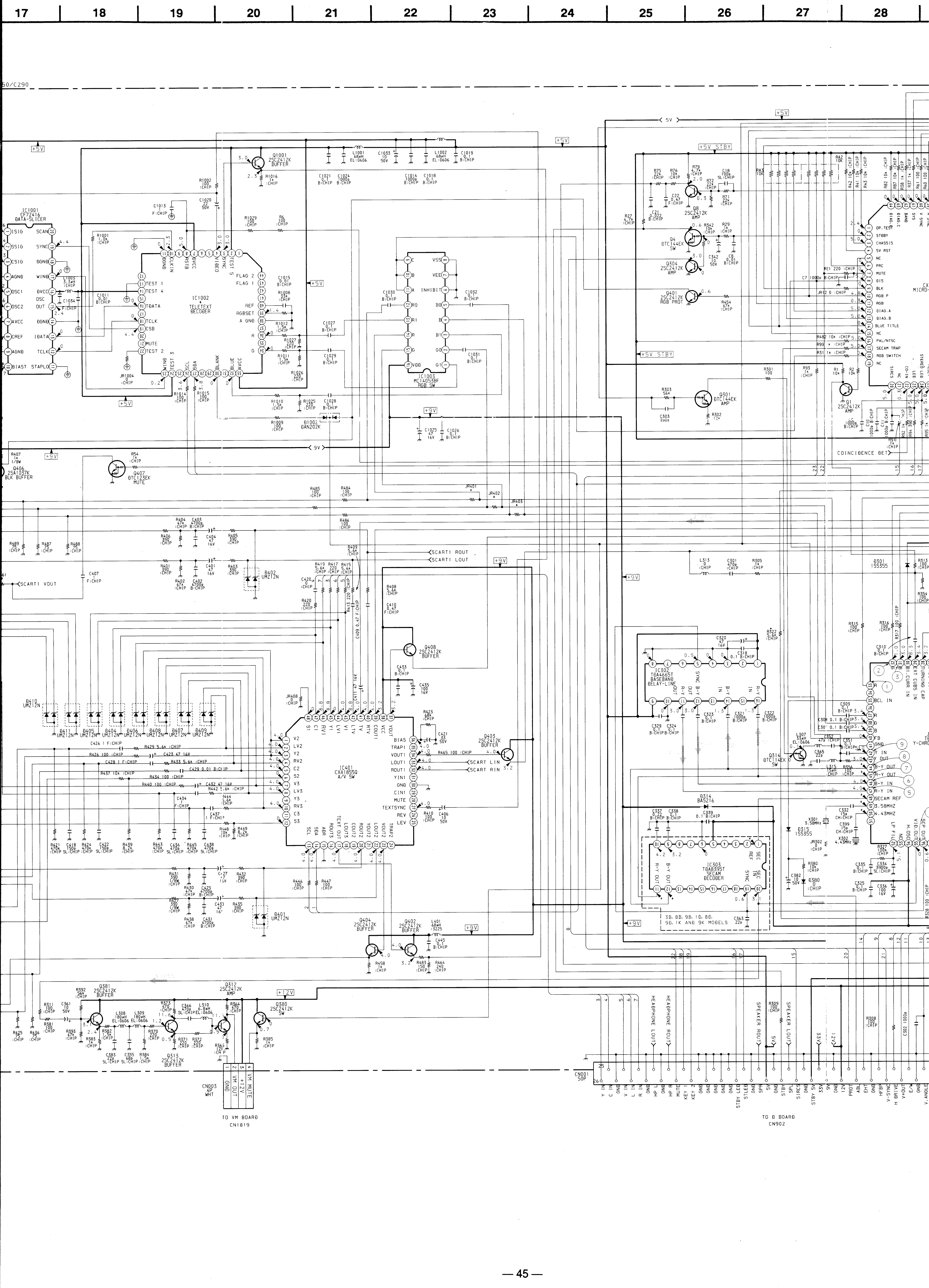

9
10
11
12
13
14
15
16
17
18
19
20
+12V
12V
5V
SDA (1)
SCL (1)
Q107 2SC2412K BUFFER
Q117 SW
Q116 SW
AGC T.O.P. ADJ
L BAND1 SEL
SYSTEM SEL
HEADPHONE LOUT
HEADPHONE ROUT
SPEAKER LOUT
SPEAKER ROUT
Q123 DTC144EK SW
Q124 DTC144EK SW
Q127 DTC144EK SW
Q128 DTC144EK SW
Q126 DTC144EK SW
D108 DAN202K
1K, 9K MODELS
BG/IDK SEL
Q132 2SC2412K BUFFER
Q131 2SA1037K BUFFER
Q133 2SC2412K BUFFER
INT CVBS
Q130 2SC2412K BUFFER
SCART1 VOUT
SCART1 ROUT
SCART1 LOUT
SCART RIN
SCART LIN
IC202 BA7046F H-SYNC-SEP
Q114 2SC2412K AMP
Q120 2SA1037K SW
COINCIDENCE DET
A
TUNER AUDIO CONTROL
AUDIO AMP. AV SW
RGB JUNGLE
Y/C PROCESSOR

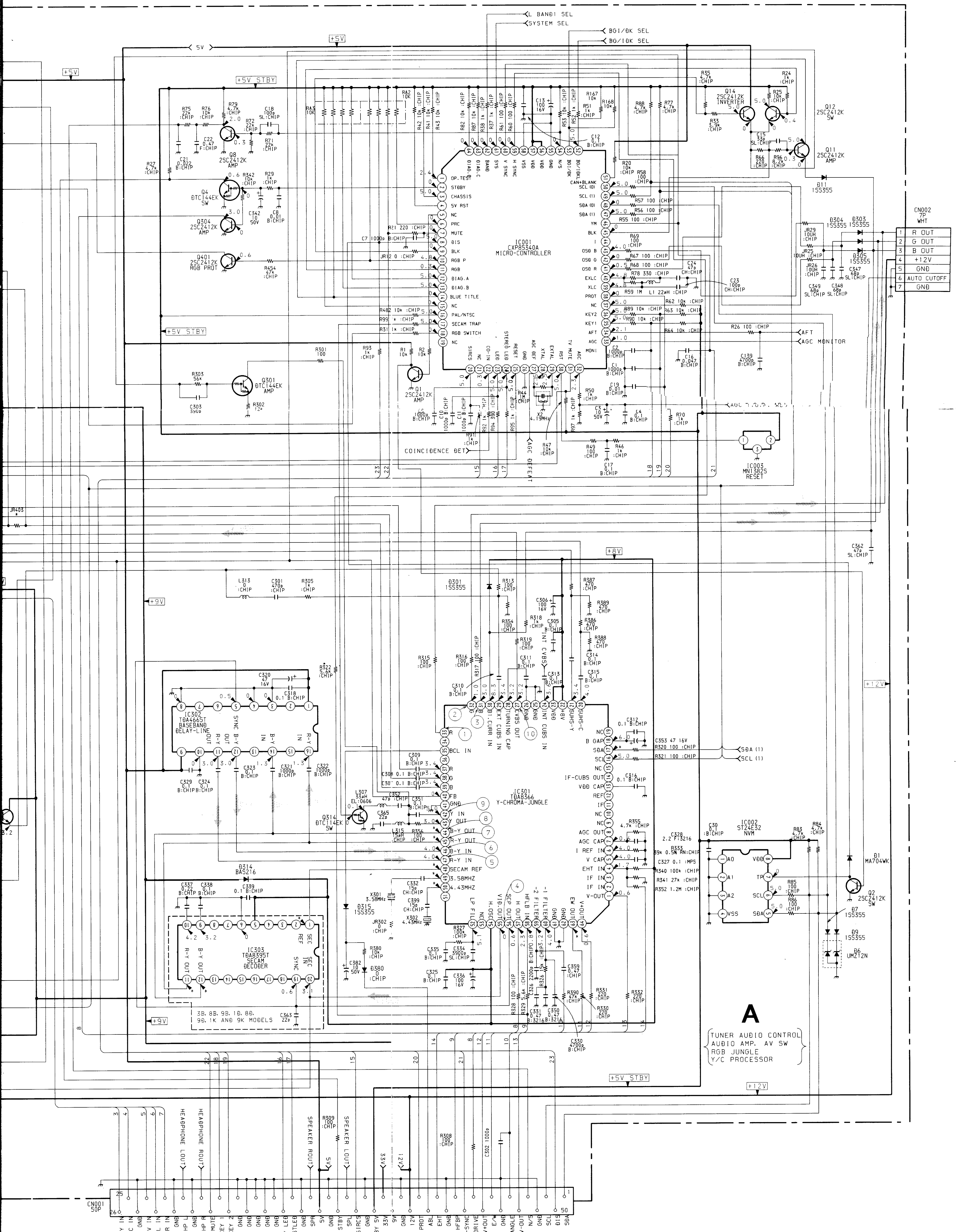

B-:SSBE3.<...>-A..-C250/C290
+5V
IC1001 CF72416 DATA-SLICER
X1001 13.875MHz
IC1002 TELETEXT DECODER
Q1001 2SC2412K BUFFER
+9V
Q406 2SA1037K BLK BUFFER
Q407 DTC123EK MUTE
SCART1 VOUT
D402 UMZ12N
D410 UMZ12N
D401 UMZ12N
J401 21P 1/2
J401 21P 2/2
R OUT
R IN
L OUT
GND
L IN
B
MODE
NC
G
R
BLK
V OUT
V IN
C IN
Q381 2SC2412K BUFFER
Q313 2SC2412K BUFFER
Q312 2SC2412K AMP
Q380 2SC2412K SW
+12V
CN003 4P WHT
GND
VM OUT
+12V
VM MUTE
TO VM BOARD CN1819

A BOARD IC301 TDA8366


I2C - BUS TRANSCEIVER
CONTROL DAC's 17 x 6 - BIT's 2 x 4 - BIT's
VCO + CONTROL
2nd LOOP + HOR. OUT
EW - GEOMETRY
SYNC SEPARATOR + 1st LOOP
H / V DIVIDER
VERTICAL GEOMETRY
VERT. SYNC SEPARATOR
BLACK - CURRENT STABILISER
POL
VIDEO AMPL.
MUTE
VIDEO MUTE
TRAP
BANDPASS
REF
FILTER TUNING
DELAY + PEAKING
WHITE P
BRI
CONTR
RGB - MATRIX + OUTPUT
SW
CVBS - SWITCH
SVHS SWITCH
HUE
PAL / NTSC DECODER
SAT
G - Y MATRIX + SAT. CONTROL
RGB - INPUT + SWITCH

NTSC 4.43
0
3.5
1.5
1.5
1.7
1.4
2.0
2.5
1.7
1.5
1.5


17
18
19
20
21
22
23
24
25
26
27
28
IC1001 CF72416 DATA-SLICER
IC1002 TELETEXT DECODER
Q1001 2SC2412K BUFFER
IC1003 MC14053BF RGB SW
D1002 DAN202K
Q406 2SA1037K BLK BUFFER
Q407 DTC123EK MUTE
Q8 2SC2412K AMP
Q4 DTC144EK SW
Q304 2SC2412K AMP
Q401 2SC2412K RGB PROT
Q301 DTC144EK AMP
Q1 2SC2412K AMP
COINCIDENCE DET
+5V
+5V STBY
+9V
+12V
5V
9V
SCART1 VOUT
SCART1 ROUT
SCART1 LOUT
SCART LIN
SCART RIN
D402 UMZ12N
D401 UMZ12N
D410 UMZ12N
D411 UMZ12N
D404 UMZ12N
D405 UMZ12N
D406 UMZ12N
D407 UMZ12N
D408 UMZ12N
D409 UMZ12N
IC401 CXA1855Q A/V SW
Q408 2SC2412K BUFFER
Q403 2SC2412K BUFFER
Q404 2SC2412K BUFFER
Q402 2SC2412K BUFFER
Q381 2SC2412K BUFFER
Q312 2SC2412K AMP
Q313 2SC2412K BUFFER
Q380 2SC2412K SW
IC302 TDA4665T BASEBAND DELAY-LINE
IC303 TDA8395T SECAM DECODER
D314 BAS216
D315 1SS355
D301 1SS355
Q314 DTC114EK SW
X301 3.58MHz
X302 4.43MHz
3B, 8B, 9B, 1D, 8D, 9D, 1K AND 9K MODELS
CN003 4P WHT
GND
VM OUT
+12V
VM MUTE
TO VM BOARD CN1819
CN001 50P
TO B BOARD CN902
HEADPHONE LOUT
HEADPHONE ROUT
SPEAKER ROUT
SPEAKER LOUT
Y IN
C IN
GND
V IN
L IN
R IN
HP L
HP R
MUTE
KEY 1
KEY 2
STBY LED
STLED
SPR
5V
STBY
SPL
SIRCS
STBY 5V
33V
9V
12V
PROT
ABL
EHT
HFBP
V-SYNC
H DRIVE
V+OUT
V.ANGLE
OP.TEST
STBY
CHASSIS
5V RST
NC
PRC
MUTE
DIS
BLK
RGB P
RGB
DIAG.A
DIAG.B
BLUE TITLE
PAL/NTSC
SECAM TRAP
RGB SWITCH
BCL IN
Y-CHRO
SECAM REF
3.58MHZ
4.43MHZ

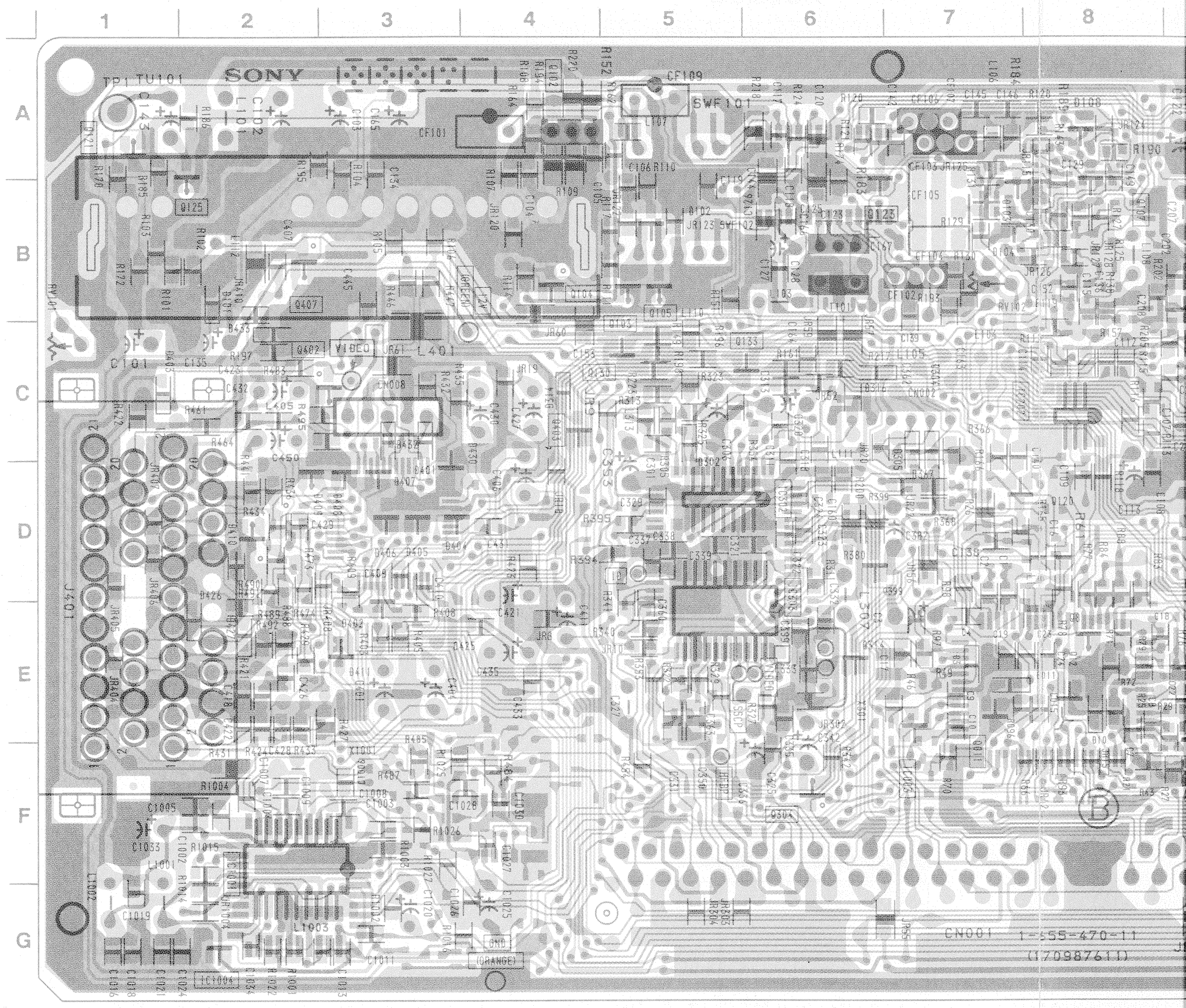

A
TUNER AUDIO CONTROL
AUDIO AMP. AV SW
RGB JUNGLE
Y/C PROCESSOR
IC001
CXP85340A
MICRO-CONTROLLER
IC301
TDA8366
Y-CHROMA-JUNGLE
IC302
TDA4665T
BASEBAND
DELAY-LINE
IC303
TDA8395T
SECAM
DECODER
IC002
ST24E32
NVM
IC003
MN13825
RESET
Q14 2SC2412K INVERTER
Q12 2SC2412K SW
Q11 2SC2412K AMP
Q8 2SC2412K AMP
Q4 DTC144EK SW
Q304 2SC2412K AMP
Q401 2SC2412K RGB PROT
Q301 DTC144EK AMP
Q1 2SC2412K AMP
Q314 DTC114EK SW
Q2 2SC2412K SW
D1 MA704WK
D6 UMZ12N
D11 1SS355
D301 1SS355
D314 BAS216
D315 1SS355
CN002 7P WHT
R OUT
G OUT
B OUT
+12V
GND
AUTO CUTOFF
GND
TO C BOARD CN703
L BAND1 SEL
SYSTEM SEL
BG1/DK SEL
BG/I0K SEL
AFT
AGC MONITOR
COINCIDENCE DET
AGC DEFEAT
SDA (1)
SCL (1)
+5V
+5V STBY
+9V
+8V
+12V
5V
HEADPHONE LOUT
HEADPHONE ROUT
SPEAKER ROUT
SPEAKER LOUT
3B, 8B, 9B, 1D, 8D, 9D, 1K AND 9K MODELS
CN001 50P
Y IN
C IN
GND
V IN
L IN
R IN
GND
HP L
GND
HP R
MUTE
KEY 1
KEY 2
GND
GND
GND
GND
STBY LED
STLED
SPR
5V
GND
STBY
SPL
SIRCS
GND
STBY 5V
33V
9V
GND
12V
PROT
ABL
EHT
GND
HFBK
V-SYNC
H DRIVE
V+OUT
E/W
V.ANGLE
V-OUT
N/S
GND
SCL
DIS
SDA
TO D BOARD CN902

A BOARD * MARK

Model / Ref	C2901A	C2903B C2908B C2909B	C2901D C2908D C2909D	C2903E C2908E C2909E	C2901K C2909K
C101	22 / 50V	4.7 / 50V	22 / 50V	22 / 50V	22 / 50V
C143	–	100 / 16V	–	–	–
C145	10p	10p	–	10p	10p
C146	10p	10p	–	10p	10p
C149	0	0	0	0	0.01
C154	68p	33p	68p	68p	68p
C155	10p	–	10p	10p	10p
C157	33p	68p	33p	33p	33p
C162	–	0.012	–	–	–
C163	–	1000p	–	–	–
C207	0.018 / 100V	0.018 / 100V	0.018 / 100V	0.018 / 100V	0.018 / 100V
C1110	–	0.047	–	0.047	–
CF101	EFCV4045A4	EFCV4045A4	EFCV4045A4	EFCV4045A4	EFCV4045A4
CF102	5.5MHz	6.5MHz	5.5MHz	5.5MHz	5.5MHz
CF103	5.5MHz	5.5MHz	5.5MHz	5.5MHz	5.5MHz
CF104	–	6.0MHz	6.5MHz	–	6.5MHz
CF106	5.7MHz	5.7MHz	5.7MHz	5.7MHz	5.7MHz
CF108	–	–	5.7MHz	–	–
D102	–	DAN202K	–	–	–
D103	–	DAN202K	DAN202K	–	DAN202K
D201	DA204K	DA204K	DA204K	DA204K	DA204K
IC101	TDA9813T	TDA9814T	TDA9813T	TDA9813T	TDA9813T
IC201	TDA6612	TDA6612	TDA6612	TDA6612	TDA6612
IC1002	CF70200FN	–	CF70203FN	CF70200FN	CF70200FN
JR122	0	–	0	0	0
JR123	0	–	0	0	0
JR125	0	–	–	0	–
JR127	–	–	–	–	–
JR201	0	–	0	–	0
JR202	0	–	0	–	0
JR401	–	0	–	–	–
JR402	–	0	–	–	–
JR403	–	0	–	–	–
L104	–	100UH	–	–	–
L105	12UH	5.6UH	12UH	12UH	12UH
L108	33UH	27UH	33UH	33UH	33UH
L201	4.7mH	4.7mH	4.7mH	4.7mH	4.7mH
Q103	–	DTC114EK	–	–	–
Q104	–	DTC114EK	–	–	–
Q105	–	DTC114EK	–	–	–
Q116	–	DTC144EK	DTC144EK	–	DTC144EK
Q117	–	DTC144EK	DTC144EK	–	DTC144EK
Q121	–	2SA1162-G	–	–	–
Q125	–	DTC114EK	–	–	–
R134	–	2.2K	2.2K	–	2.2K
R135	–	2.2K	2.2K	–	2.2K
R143	–	2.2K	2.2K	–	2.2K
R147	220	180	220	220	220
R150	0	0	0	0	0
R161	180	180	180	180	180
R193	–	1K	–	–	–
R199	1K	1.2K	1K	1K	1K
R461	75	75	75	75	75
R1104	–	33K	–	33K	–
R1105	–	1.8K	–	1.8K	–
RV102	–	22K	–	–	–
SWF101	K3953M	K3953M	K3953M	K3953M	K3953M
SWF102	K9350M	K9453M	K9350M	K9350M	K9350M
TU101	UV916H	UV916H	UV916H	UV916H	UV916H

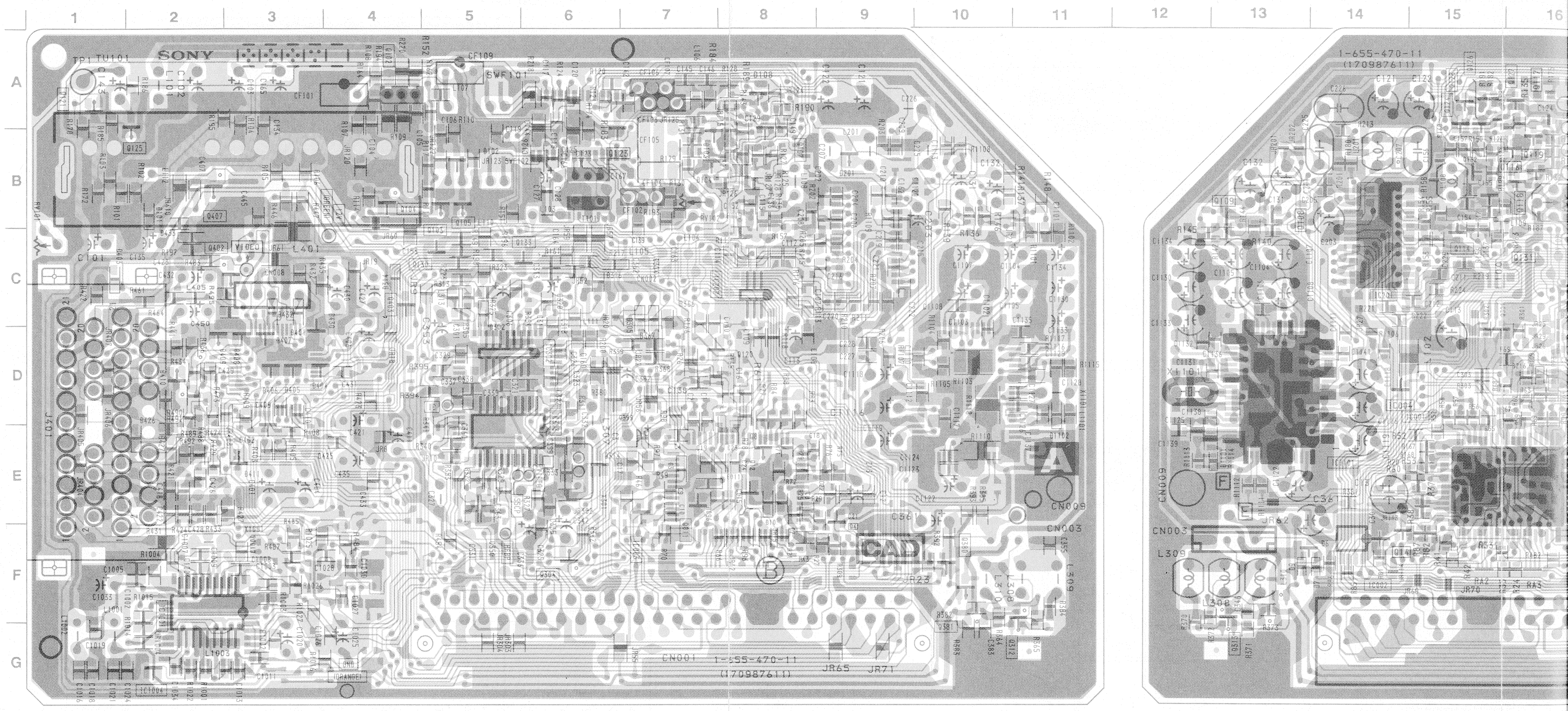
A TUNER AUDIO CONTROL
AUDIO AMP, AV SW
RGB JUNGLE, Y/C PROCESSOR

— A BOARD —



A TUNER AUDIO CONTROL
AUDIO AMP, AV SW
RGB JUNGLE, Y/C PROCESSOR

— A BOARD —


1
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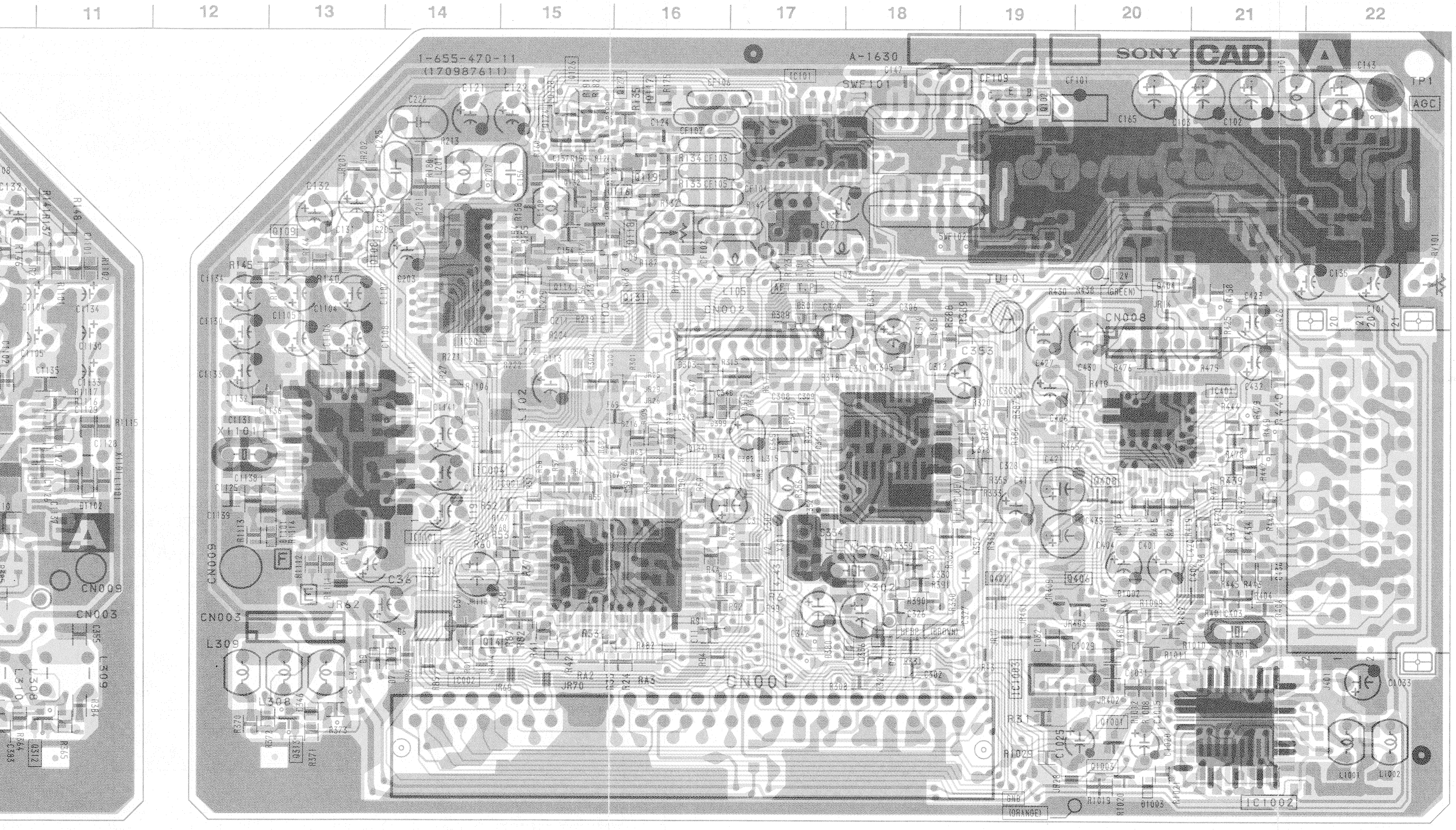
16
A
B
C
D
E
F
G
SONY
TP1
TU101
SWF101
CF101
CF109
VIDEO
L401
Q407
J401
Q125
Q133
CN001
1-655-470-11
(170987611)
JR65
JR71
JR23
CAD
CN003
CN009
L309
L308
L310
JR62
JR70
CN008
ORANGE
GND


11
12
13
14
15
16
17
18
19
20
21
22
1-655-470-11
(170987611)
A-1630
SONY
CAD
A
TP1
AGC
CN001
CN003
CN008
CN009
IC001
IC002
IC1002
SWF101
TU101
L309

– A BOARD –

IC	
IC001	E-15
IC002	F-14
IC003	E-7
IC101	A-17
IC201	C-14
IC202	C-8
IC301	D-18
IC302	E-5
IC303	E-6
IC401	D-20
IC1001	F-2
IC1002	G-21
IC1003	F-19
IC1101	E-14

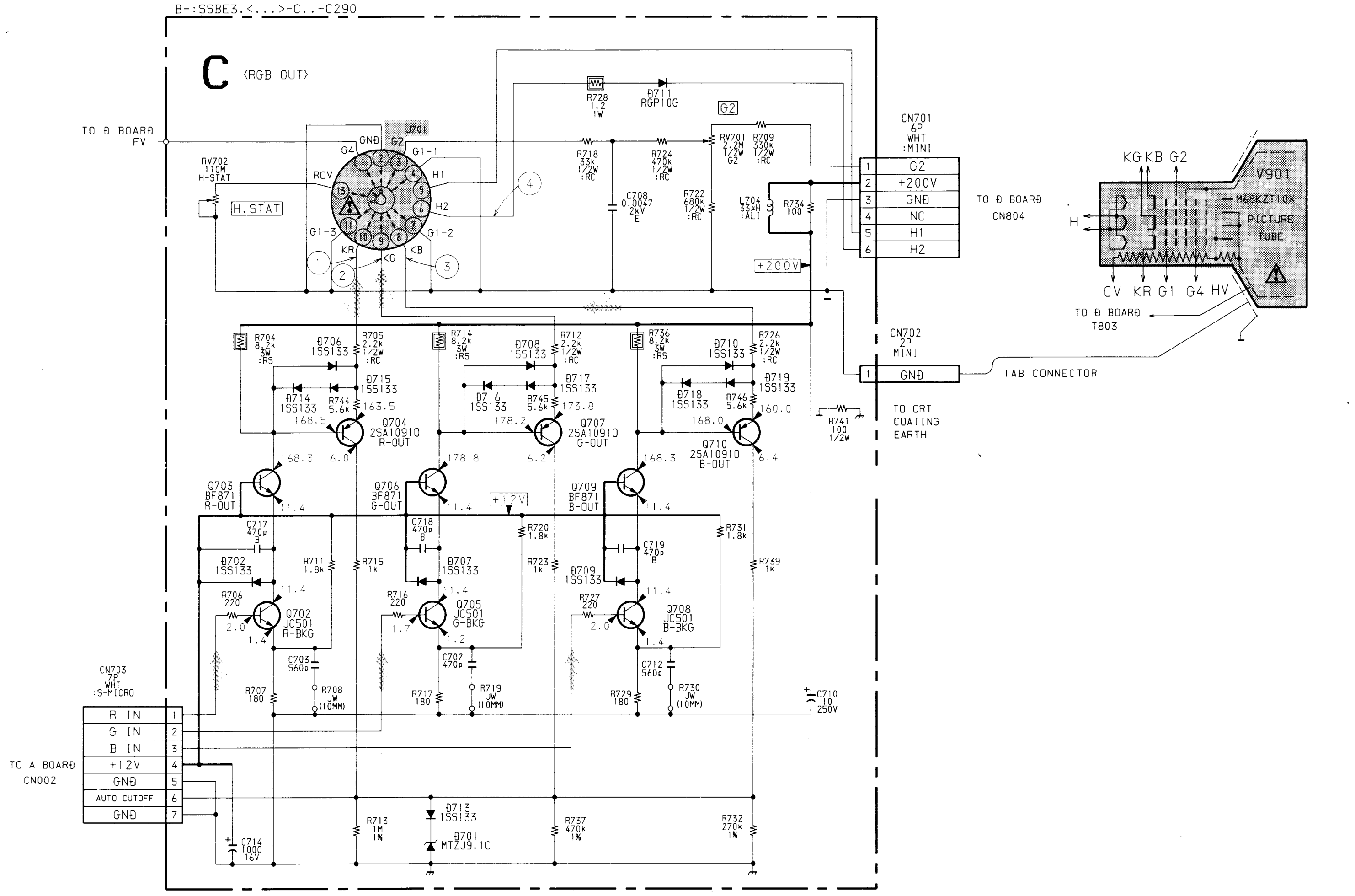
TRANSISTOR	
Q4	F-9
Q8	E-8
Q11	E-7
Q12	E-8
Q14	F-15
Q102	A-4
Q103	B-5
Q104	B-4
Q105	B-5
Q107	B-8
Q108	B-13
Q109	B-13
Q114	C-15
Q116	B-16
Q117	B-16
Q120	D-8
Q121	A-1
Q123	B-6
Q124	A-15
Q125	B-2
Q126	A-15
Q127	A-16
Q128	A-15
Q130	C-5
Q131	B-15
Q132	B-15
Q133	C-6
Q134	D-16
Q301	D-16
Q304	F-6
Q312	G-11
Q313	G-13
Q314	E-6
Q380	F-10
Q381	F-10
Q401	E-19
Q402	C-3
Q403	C-4
Q404	C-21
Q406	E-20
Q407	B-2
Q408	E-20
Q1001	G-20

DIODE	
D6	F-14
D7	F-14
D9	F-13
D11	E-8
D101	B-2
D102	B-5
D103	B-7
D108	A-8
D201	B-9
D301	C-17
D303	C-16
D304	C-7
D305	C-7
D314	C-4
D315	D-17
D401	D-3
D402	E-3
D404	D-3
D405	D-3
D406	D-3
D407	D-3
D408	D-3
D409	D-3
D410	D-2
D411	E-3
D1002	F-20
D1101	E-13
D1102	E-11

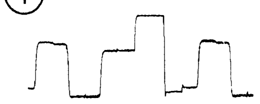
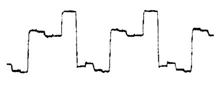
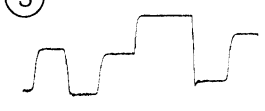
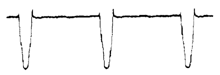
VARIABLE RESISTOR	
RV102	B-16

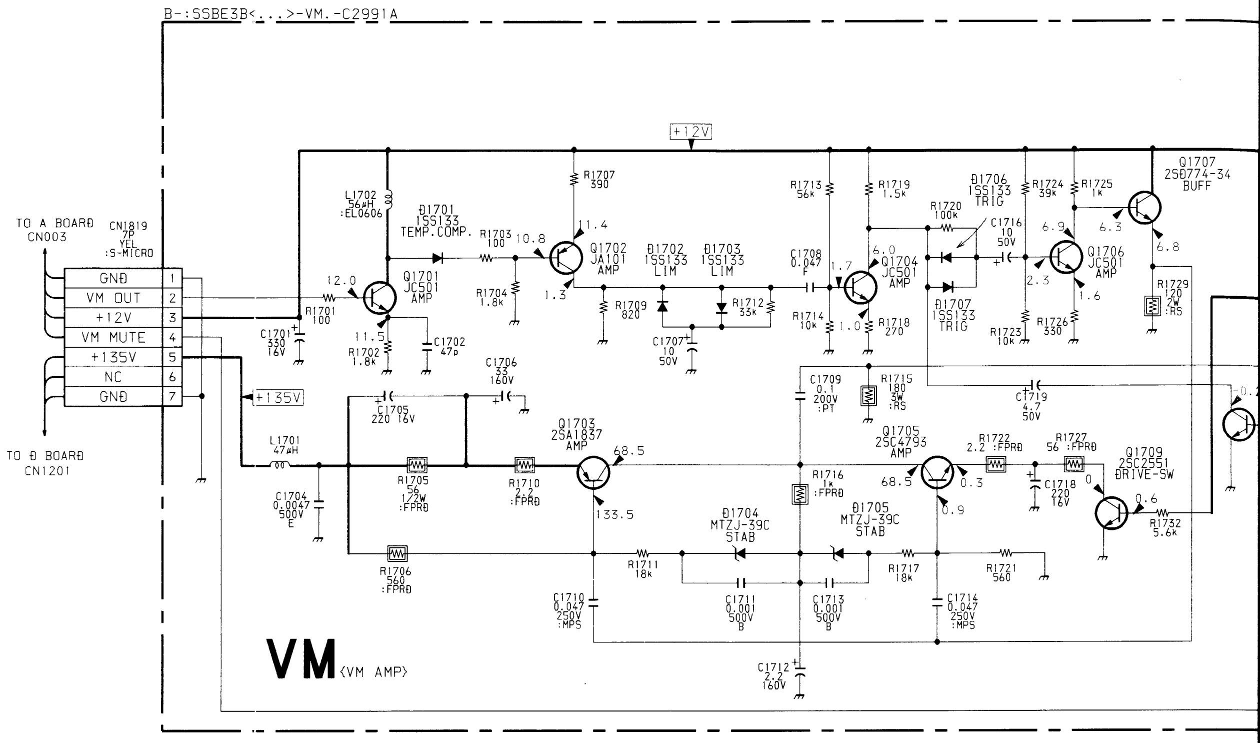
Note:

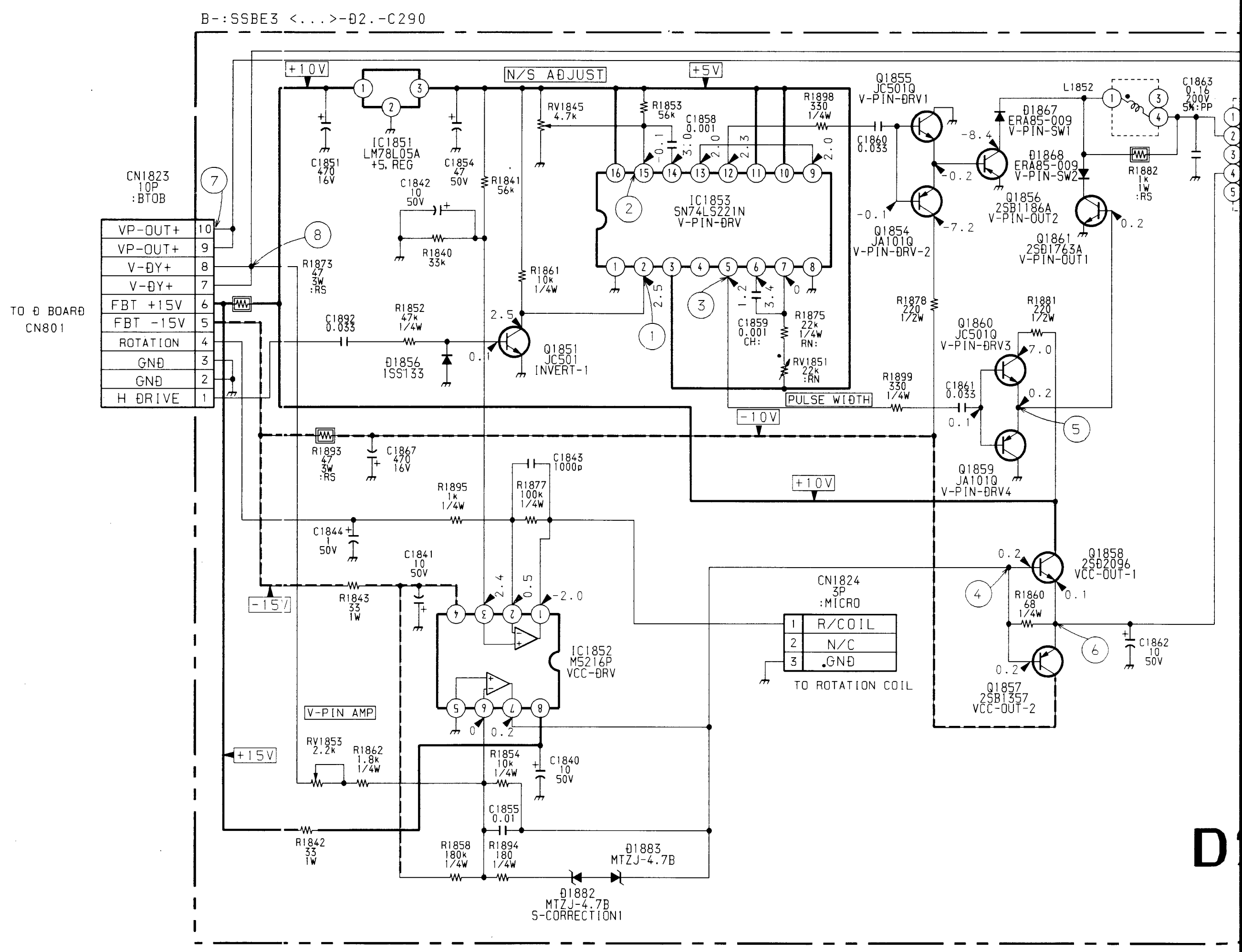
- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.


B-:SSBE3.<...>-C..-C290
C (RGB OUT)
TO B BOARD FV
J701
H.STAT
CN701 6P WHT :MINI
G2
+200V
GND
NC
H1
H2
TO D BOARD CN804
V901
M68KZT10X PICTURE TUBE
CV KR G1 G4 HV
TO D BOARD T803
CN702 2P MINI
GND
TAB CONNECTOR
TO CRT COATING EARTH
+200V
+12V
Q704 2SA1091O R-OUT
Q707 2SA1091O G-OUT
Q710 2SA1091O B-OUT
Q703 BF871 R-OUT
Q706 BF871 G-OUT
Q709 BF871 B-OUT
Q702 JC501 R-BKG
Q705 JC501 G-BKG
Q708 JC501 B-BKG
CN703 7P WHT :S-MICRO
R IN
G IN
B IN
+12V
GND
AUTO CUTOFF
GND
TO A BOARD CN002

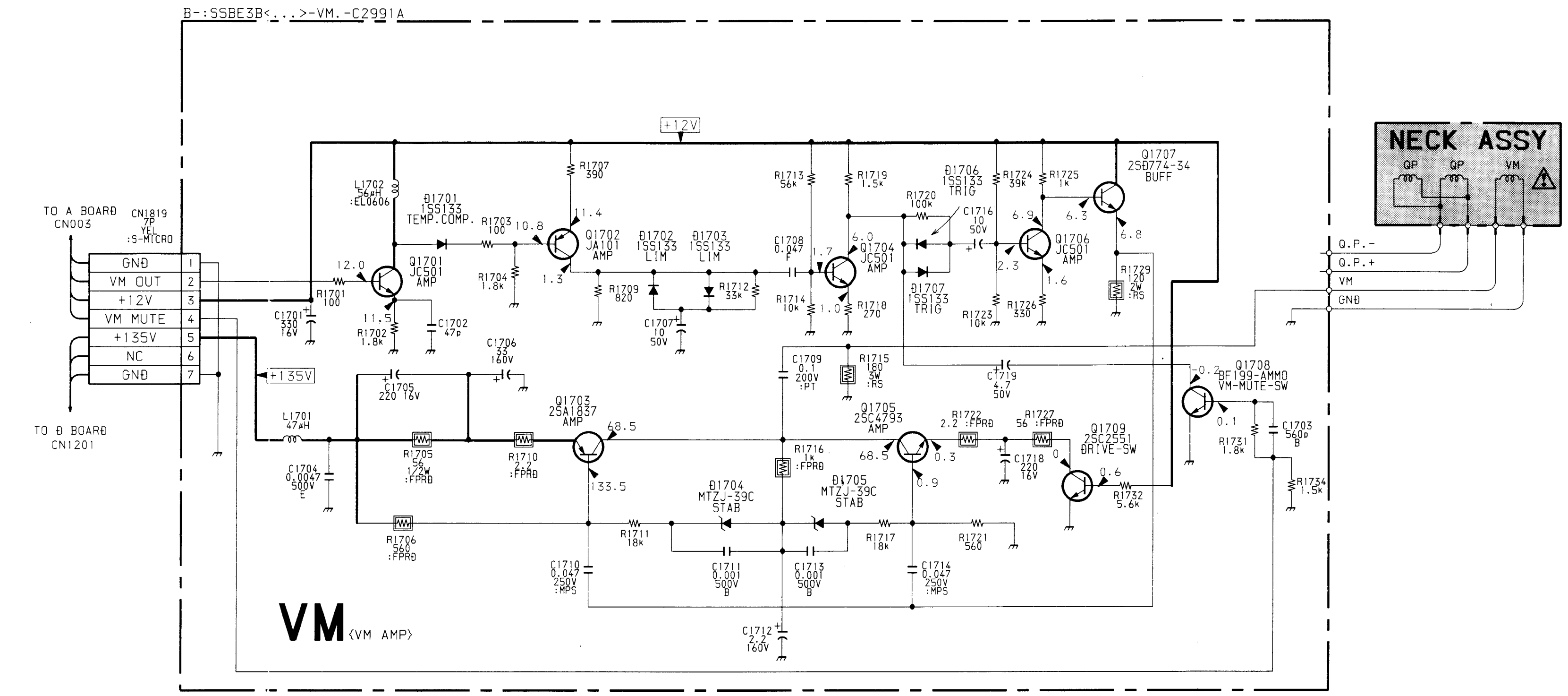
WAVEFORMS C BOARD

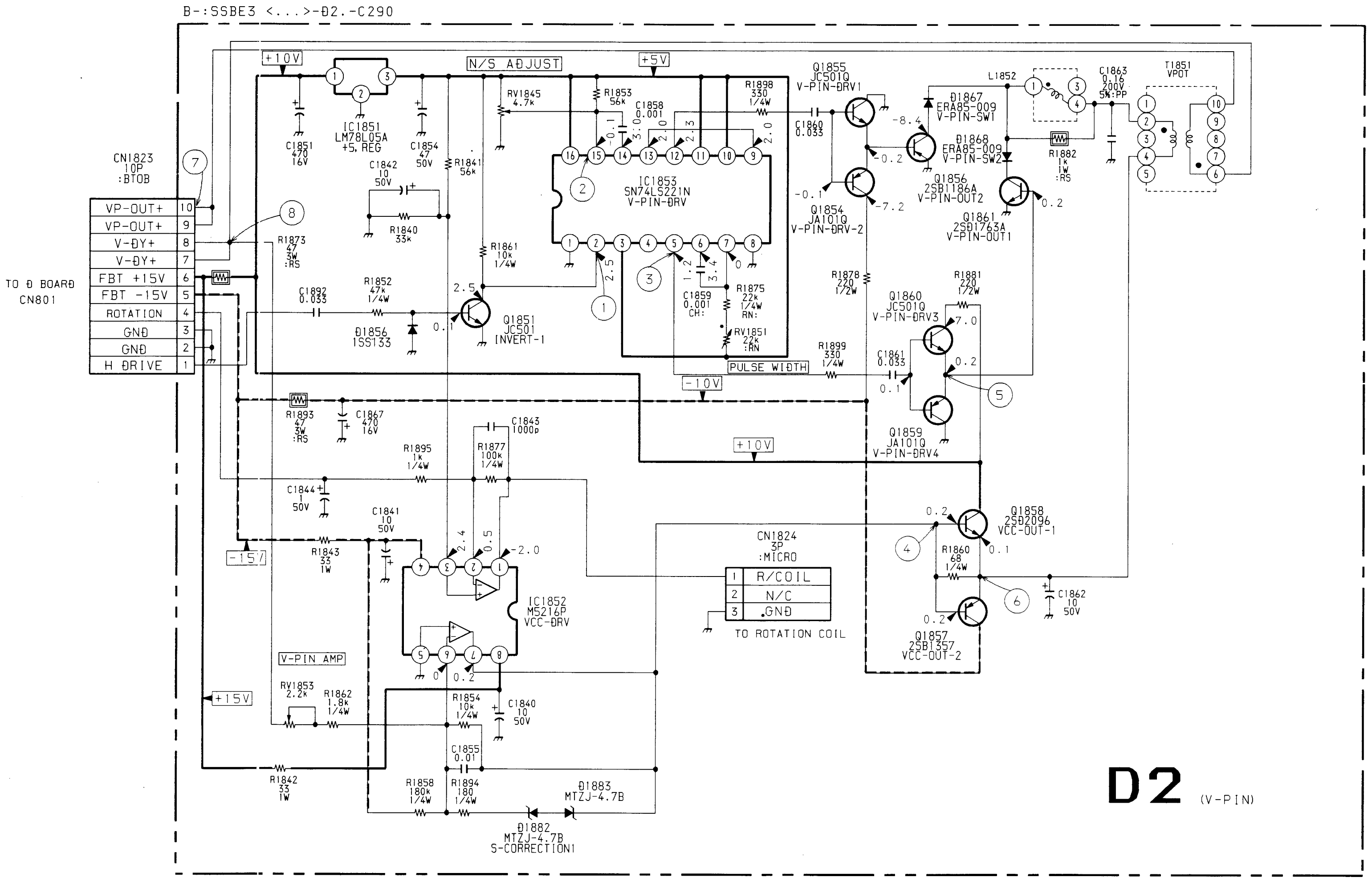
①  103 Vp-p (H)	②  76.0 Vp-p (H)	③  100 Vp-p (H)	④  18.5 Vp-p (H)


B-:SSBE3B<...>-VM.-C2991A
+12V
TO A BOARD CN003
CN1819 7P YEL :S-MICRO
GND
VM OUT
+12V
VM MUTE
+135V
NC
GND
TO D BOARD CN1201
+135V
Q1701 JC501 AMP
Q1702 JA101 AMP
Q1703 2SA1837 AMP
Q1704 JC501 AMP
Q1705 2SC4793 AMP
Q1706 JC501 AMP
Q1707 2SB774-3S BUFF
Q1709 2SC2551 DRIVE-SW
VM (VM AMP)

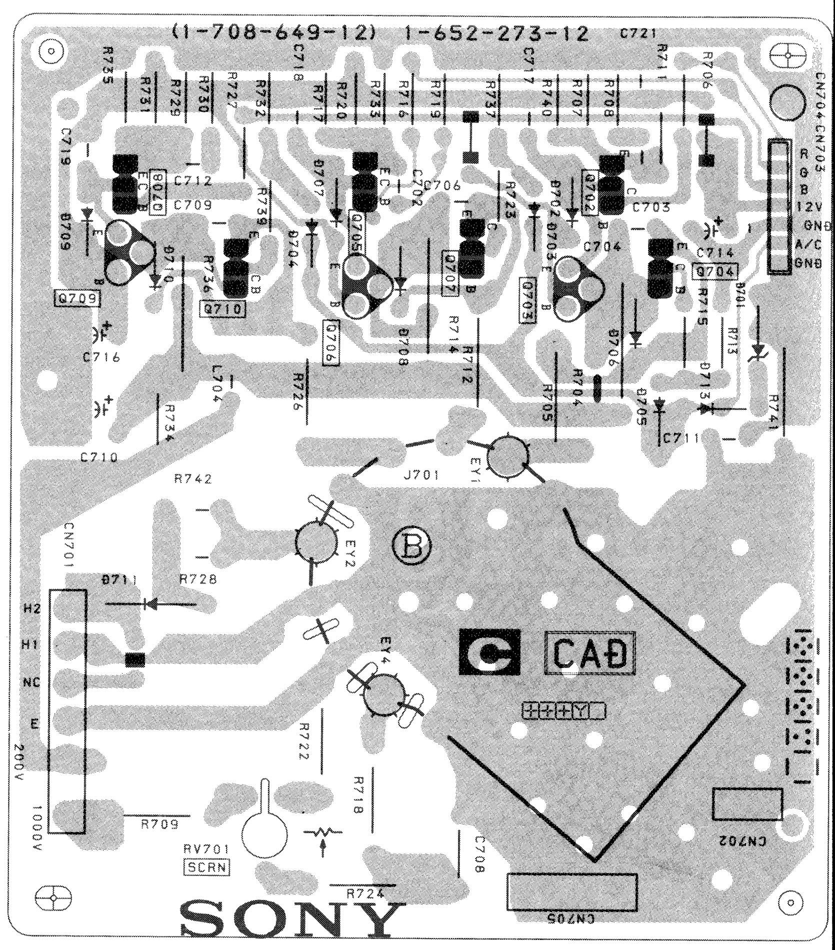

B-:SSBE3 <...>-D2.-C290
+10V
N/S ADJUST
+5V
IC1851 LM78L05A +5. REG
IC1853 SN74LS221N V-PIN-DRV
PULSE WIDTH
-10V
CN1823 10P :BTOB
VP-OUT+
VP-OUT+
V-DY+
V-DY+
FBT +15V
FBT -15V
ROTATION
GND
GND
H DRIVE
TO D BOARD CN801
Q1851 JC501 INVERT-1
Q1855 JC501Q V-PIN-DRV1
Q1854 JA101Q V-PIN-DRV-2
Q1856 2SB1186A V-PIN-OUT2
Q1861 2SD1763A V-PIN-OUT1
Q1860 JC501Q V-PIN-DRV3
Q1859 JA101Q V-PIN-DRV4
Q1858 2SD2096 VCC-OUT-1
Q1857 2SB1357 VCC-OUT-2
IC1852 M5216P VCC-DRV
V-PIN AMP
-15V
+15V
+10V
CN1824 3P :MICRO
R/COIL
N/C
GND
TO ROTATION COIL
D1882 MTZJ-4.7B S-CORRECTION1
D1883 MTZJ-4.7B

C [RGB OUT] **D2** [V-PIN] **VM** [VM AMP]

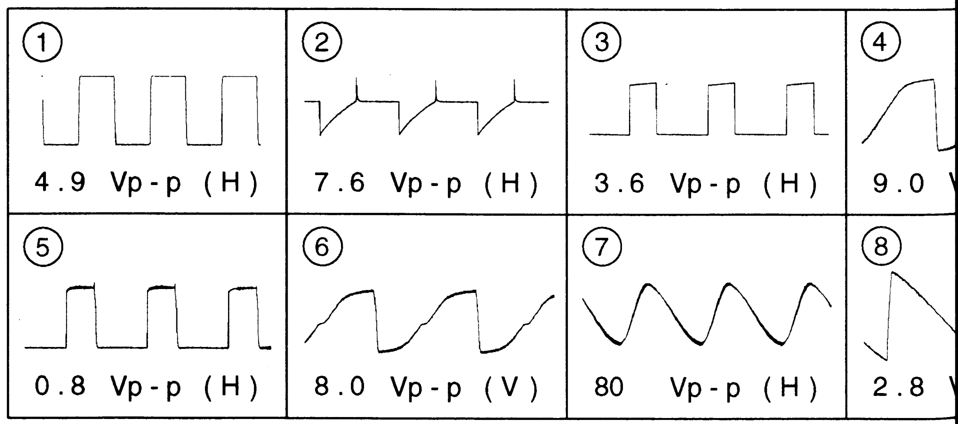

B-:SSBE3B<...>-VM.-C2991A
VM (VM AMP)
NECK ASSY
TO A BOARD CN003
CN1819 7P :S-MICRO
GND
VM OUT
+12V
VM MUTE
+135V
NC
GND
TO D BOARD CN1201
+12V
+135V
Q1701 JC501 AMP
Q1702 JA101 AMP
Q1703 2SA1837 AMP
Q1704 JC501 AMP
Q1705 2SC4793 AMP
Q1706 JC501 AMP
Q1707 2SD774-34 BUFF
Q1708 BF199-AMMO VM-MUTE-SW
Q1709 2SC2551 DRIVE-SW
D1701 1SS133 TEMP.COMP.
D1702 1SS133 LIM
D1703 1SS133 LIM
D1704 MTZJ-39C STAB
D1705 MTZJ-39C STAB
D1706 1SS133 TRIG
D1707 1SS133 TRIG
Q.P.-
Q.P.+
VM
GND


B-:SSBE3 <...>-D2.-C290
D2 (V-PIN)
TO D BOARD CN801
CN1823 10P :BTOB
VP-OUT+
VP-OUT+
V-DY+
V-DY+
FBT +15V
FBT -15V
ROTATION
GND
GND
H DRIVE
+10V
+5V
-10V
-15V
+15V
N/S ADJUST
PULSE WIDTH
V-PIN AMP
IC1851 LM78L05A +5 REG
IC1853 SN74LS221N V-PIN-DRV
IC1852 M5216P VCC-DRV
Q1851 JC501 INVERT-1
Q1854 JA101Q V-PIN-DRV-2
Q1855 JC501Q V-PIN-DRV1
Q1856 2SB1186A V-PIN-OUT2
Q1857 2SB1357 VCC-OUT-2
Q1858 2SD2096 VCC-OUT-1
Q1859 JA101Q V-PIN-DRV4
Q1860 JC501Q V-PIN-DRV3
Q1861 2SD1763A V-PIN-OUT1
D1856 1SS133
D1867 ERA85-009 V-PIN-SW1
D1868 ERA85-009 V-PIN-SW2
D1882 MTZJ-4.7B S-CORRECTION1
D1883 MTZJ-4.7B
T1851 VPDT
CN1824 3P :MICRO
R/COIL
N/C
GND
TO ROTATION COIL

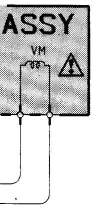
— C BOARD —


(1-708-649-12) 1-652-273-12
CN701
CN702
CN703
CN704
J701
RV701 SCRN
CAD
SONY
H2
H1
NC
E
200V
1000V
12V
GND
A/C
GND

WAVEFORMS D2 BOARD

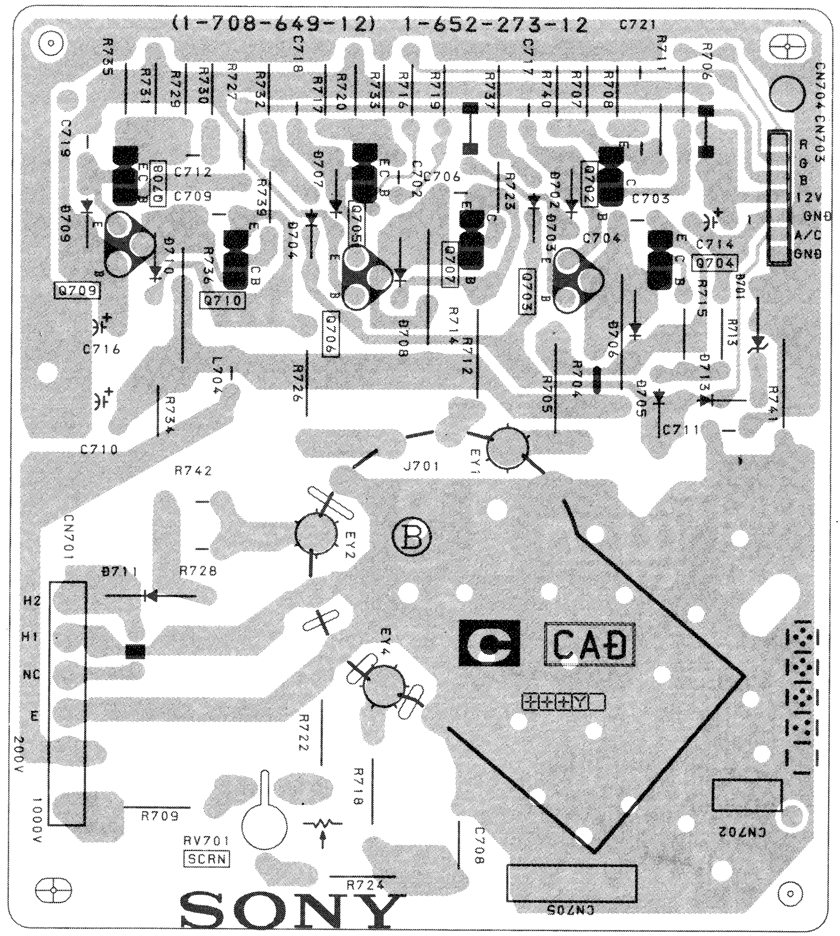


19

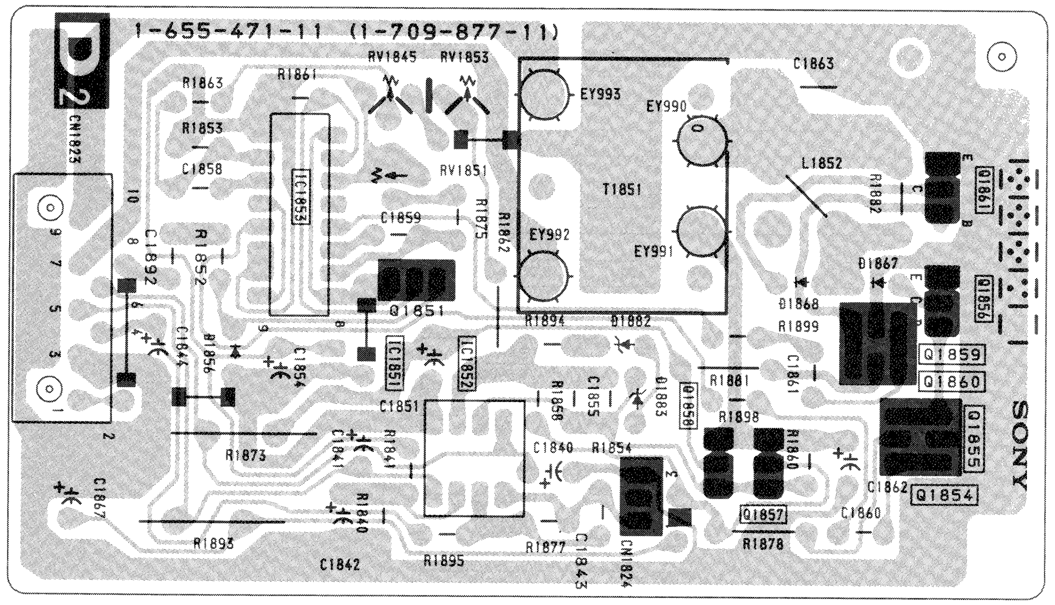


C [RGB OUT] D2 [V-PIN] VM [VM AMP]

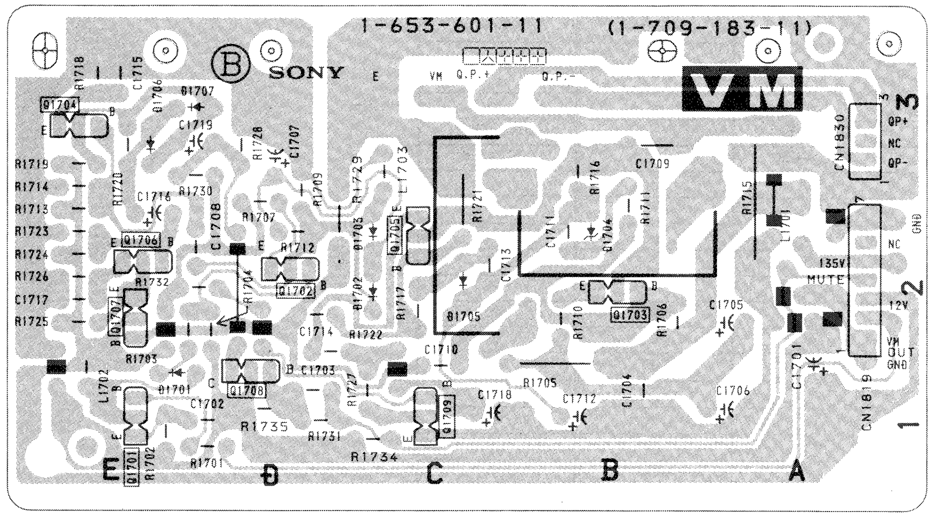
— C BOARD —


(1-708-649-12) 1-652-273-12
C721
R
G
B
12V
GND
A/C
GND
CN704
CN703
Q709
Q710
Q706
Q707
Q703
Q704
Q702
J701
EY1
EY2
EY3
CN701
H2
H1
NC
E
200V
1000V
RV701
SCRN
CN702
CN705
C
CAD
SONY

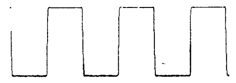
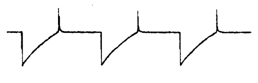
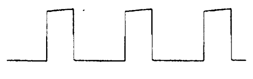
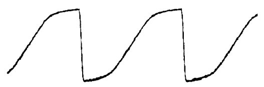
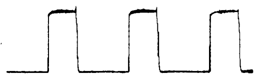
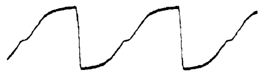
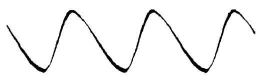
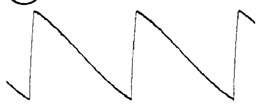
— D2 BOARD —


D2
1-655-471-11 (1-709-877-11)
RV1845
RV1853
CN1823
IC1853
IC1851
IC1852
T1851
EY990
EY991
EY992
EY993
L1852
Q1851
Q1854
Q1855
Q1856
Q1857
Q1859
Q1860
Q1861
CN1824
SONY

— VM BOARD —

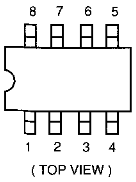

1-653-601-11 (1-709-183-11)
SONY
VM
CN1850
CN1819
QP+
NC
QP-
GND
135V
MUTE
12V
VM OUT
GND
Q1701
Q1702
Q1703
Q1704
Q1705
Q1706
Q1707
Q1708
Q1709
E
D
C
B
A
1
2
3

WAVEFORMS D2 BOARD

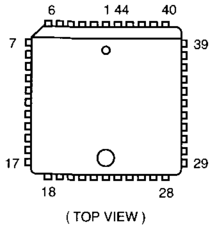
①  4.9 Vp-p (H)	②  7.6 Vp-p (H)	③  3.6 Vp-p (H)	④  9.0 Vp-p (V)
⑤  0.8 Vp-p (H)	⑥  8.0 Vp-p (V)	⑦  80 Vp-p (H)	⑧  2.8 Vp-p (V)

5-4. SEMICONDUCTORS

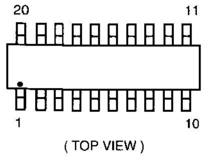
BA7046F


8 7 6 5
1 2 3 4
(TOP VIEW)

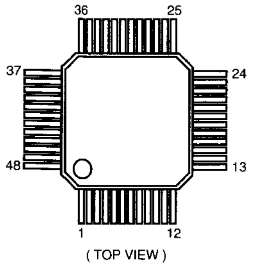
CF70200FN-R
CF70203FN-F
CF70205FN-R


6
1 44
40
7
39
17
29
18
28
(TOP VIEW)

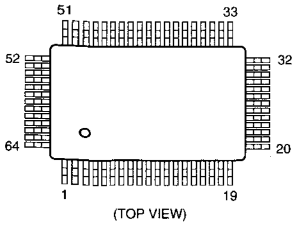
CF72416DW-R
TDA8395T


20
11
1
10
(TOP VIEW)

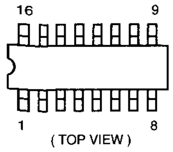
CXA1855Q


36
25
37
24
48
13
1
12
(TOP VIEW)

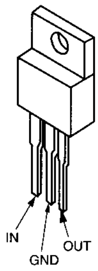
CXP85340A
SAA7283T
TDA8366T


51
33
52
32
64
20
1
19
(TOP VIEW)

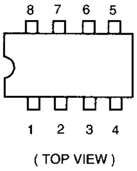
HD14053BFP
MC14053BF


16
9
1
8
(TOP VIEW)

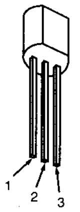
LM2940CT-5.0
LM2940T-9.0
MCT7812CT
TA7812S
μPC2405HF



LM393P
M5216P
TDA2822M
μPC393C

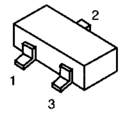

8 7 6 5
1 2 3 4
(TOP VIEW)

LM78L05ACZ



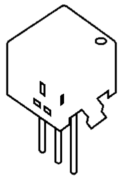
1 Ground
2 Input
3 Output

MN1382S

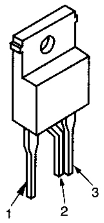


1 : OUT
2 : VDD
3 : VSS

SBX1790-51

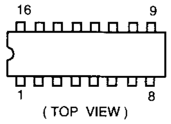


SE135N-LF12

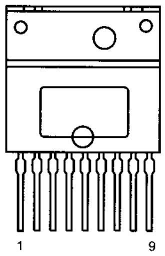


1 V OUT
2 V IN
3 GND

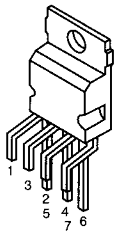
SN74LS221N


16
9
1
8
(TOP VIEW)

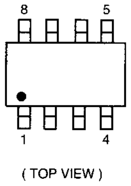
STR-S6708



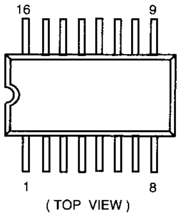
STV9379



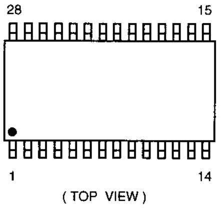
ST24E32M6TR


8
5
1
4
(TOP VIEW)

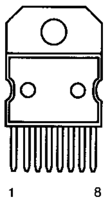
TDA4665T


16
9
1
8
(TOP VIEW)

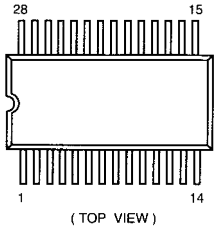
TDA6612-5X-GEG
TDA6622-5X-GEG


28
15
1
14
(TOP VIEW)

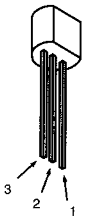
TDA7264



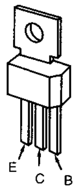
TDA9813T
TDA9814T


28
15
1
14
(TOP VIEW)

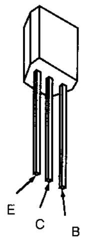
TL750L05CLPR



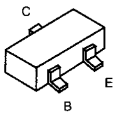
BF871



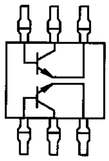
DTA144ES
DTC114ES
DTC143TS
DTC144ES



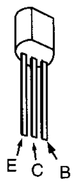
DTC114EK
DTC144EK
2SA1037K
2SA1162-G
2SC2412K



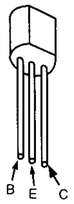
IMX1



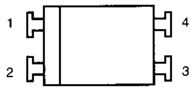
JA101
JC501
2SA1091-O
2SA733-K
2SC2389S-R
2SC2510-O
2SC2808S-R



MPA502T
2SC3779C



TLP721-GR



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2SB1357
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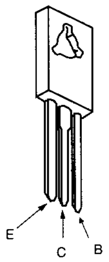

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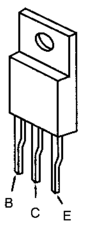

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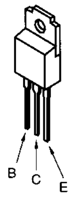

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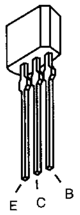

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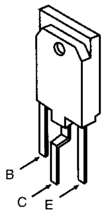

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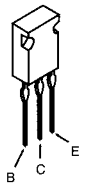

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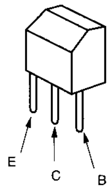

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EL1Z-V1
EM1-V1
EU-1-V1
EU-1Z

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RGP02
RGP10GPKG23
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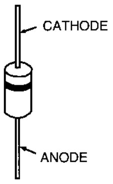
RU3YX
RU4DS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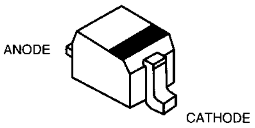
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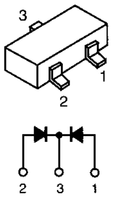

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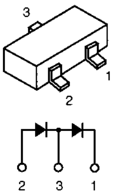

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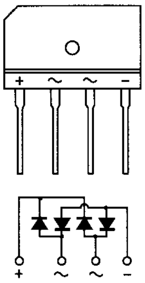

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MTZJ-4.7B
MTZJ-5.1B
MTZJ-5.6B
MTZJ-6.8C
MTZJ-7.5C
MTZJ-9.1
MTZJ-9.1A

MTZJ-9.1C
MTZJ-39C
RD3.9ESB2
RD5.1ESB2
RD5.6ESB2
RD6.8ESB2
RD7.5ESB2
RD9.1ESB3
UZ-4.7BSC
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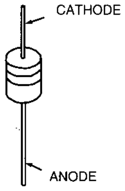
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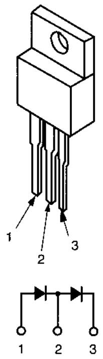

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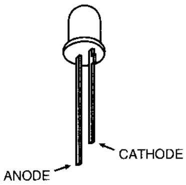

ANODE
CATHODE

SECTION 6
EXPLODED VIEWS

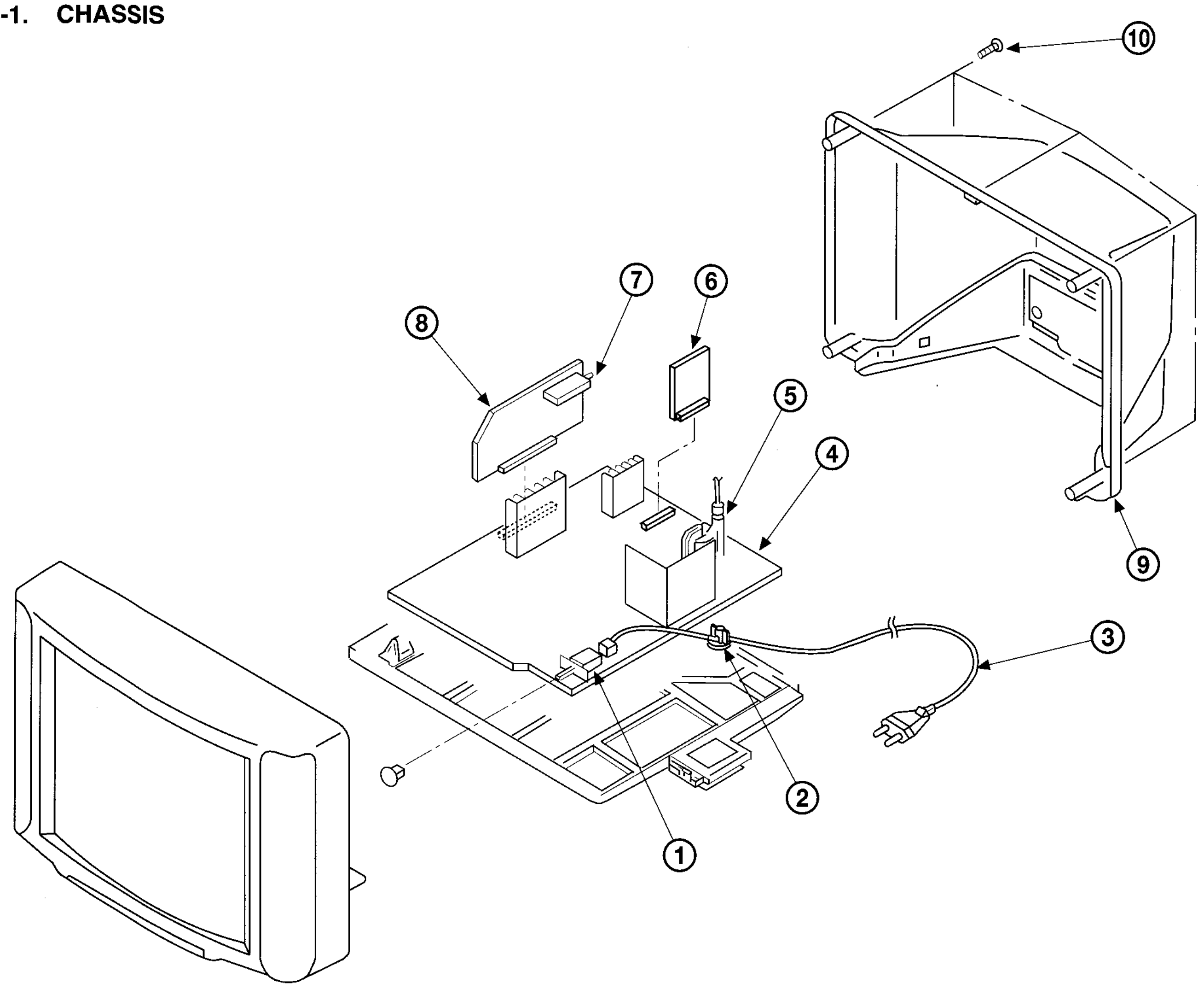
NOTE :

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and marked ⚠ are critical for safety.
Replace only with the part number specified.

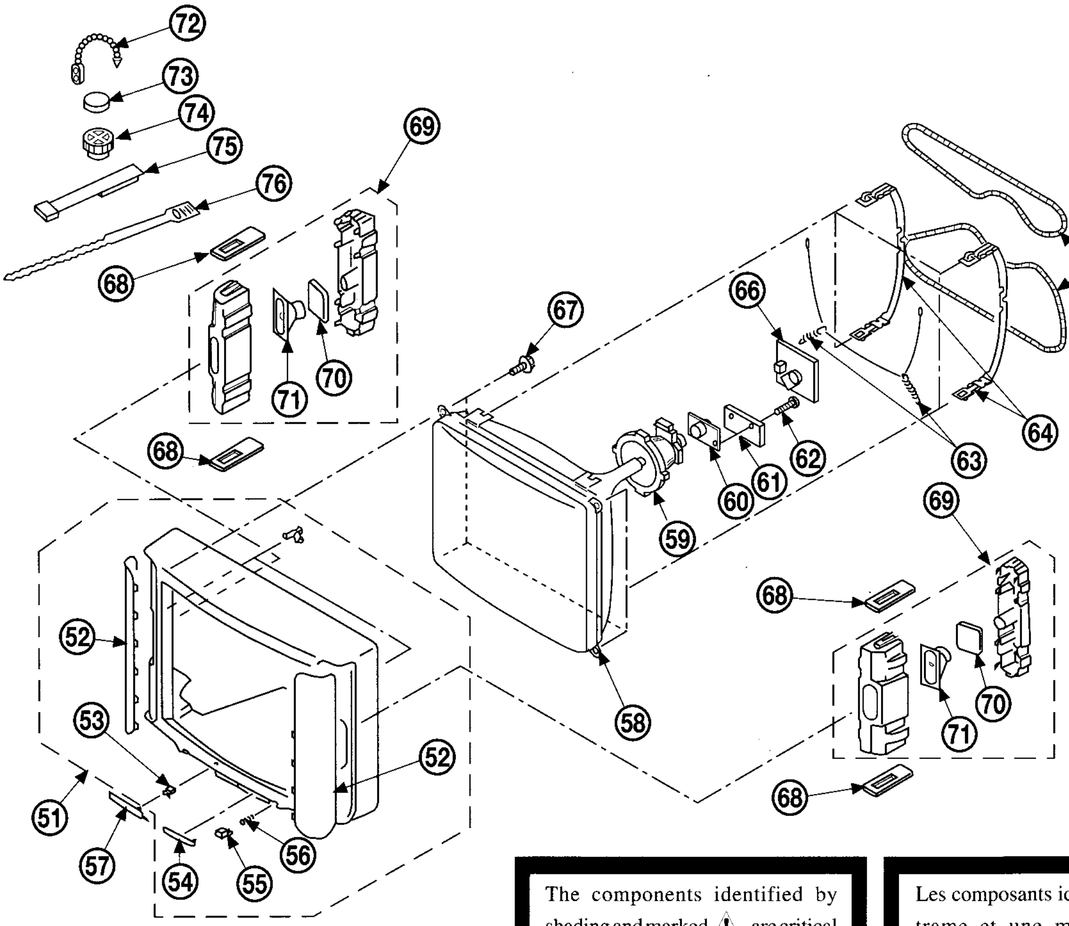
Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

6-1. CHASSIS



REF NO	PART NO	DESCRIPTION	REMARK
1	⚠ 1-571-433-12	SWITCH, PUSH (AC POWER)	
2	*4-202-531-01	AC CORD LOCK (SC)	
3	⚠ 1-751-680-11	CORD, POWER (WITH NOISE FILTER) 2.5A/250V	
4	*A-1642-147-A	D BOARD, COMPLETE	
5	⚠ 1-453-169-11	TRANSFORMER ASSY, FLYBACK (UX-1604A2)	
6	*A-1640-173-A	D2 BOARD, COMPLETE	
7	1-693-185-11	TUNER (UV916H)	
8	*A-1632-266-A	A BOARD, COMPLETE (KV-C2901D/C2908D/C2909D)	
	*A-1632-276-A	A BOARD, COMPLETE (KV-C2903B/C2908B/C2909B)	
	*A-1632-277-A	A BOARD, COMPLETE (KV-C2903E/C2908E/C2909E)	
	*A-1632-278-A	A BOARD, COMPLETE (KV-C2901A)	
	*A-1632-279-A	A BOARD, COMPLETE (KV-C2901K/C2909K)	
9	4-202-993-01	COVER, REAR	
10	4-039-358-01	SCREW (4x16), (+) BV TAPPING	

6-2. PICTURE TUBE



The components identified by shading and marked ⚠ are critical for safety.
Replace only with the part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF NO	PART NO	DESCRIPTION	REMARK
51	X-4200-196-1	BEZNET ASSY (S) (KV-C2901A/C2901D/C2901K)	52 - 56
	X-4200-202-1	BEZNET ASSY (W) (KV-C2908D)	52 - 56
	X-4200-203-1	BEZNET ASSY (B-N) (KV-C2909B/C2909E)	52 - 56
	X-4200-204-1	BEZNET ASSY (S-N) (KV-C2903B/C2903E)	52 - 56
	X-4200-205-1	BEZNET ASSY (W-N) (KV-C2908B/C2908E)	52 - 56
	X-4200-206-1	BEZNET ASSY (B) (KV-C2909D/C2909K)	52 - 56
52	X-4200-195-1	PANEL ASSY (S) (KV-C2901A/C2901D/C2901K)	
	X-4200-197-1	PANEL ASSY (W) (KV-C2908D)	
	X-4200-198-1	PANEL ASSY (B) (KV-C2909D/C2909K)	
	X-4200-199-1	PANEL ASSY (S-N) (KV-C2903B/C2903E)	
	X-4200-200-1	PANEL ASSY (W-N) (KV-C2908B/C2908E)	
	X-4200-201-1	PANEL ASSY (B-N) (KV-C2909B/C2909E)	
53	4-392-036-01	CATCHER, PUSH	
54	4-202-981-01	WINDOW ORNAMENTAL	
55	4-202-992-01	BUTTON, POWER	
56	4-202-964-01	SPRING	

REF NO	PART NO	DESCRIPTION	REMARK
57	4-203-013-01	DOOR (PAINTED) (S) (KV-C2901A/C2903B /C2901D/C2903E/C2901K)	
	4-203-013-11	DOOR (PAINTED) (W) (KV-C2908B/C2908D/C2908E)	
	4-203-013-21	DOOR (PAINTED) (B) (KV-C2909B/C2909D/C2909E/C2909K)	
58	⚠ 8-733-841-05	PICTURE TUBE (SD-269) (M68KZT10X)	
59	⚠ 8-451-422-11	DEFLECTION YOKE (Y29GXA)	
60	⚠ 1-452-509-41	NECK ASSY, PICTURE TUBE (NA-308)	
61	*A-1644-052-A	VM BOARD, COMPLETE	
62	4-039-356-01	SCREW (3x12), (+) BV TAPPING	
63	4-369-318-51	SPRING, TENSION	
64	4-202-749-01	HOLDER, DGC (29")	
65	⚠ 1-406-807-11	COIL, DEGAUSSING	
66	*A-1638-058-A	C BOARD, COMPLETE	
67	4-036-188-01	SCREW (M), PT	
68	*4-202-988-01	CUSHION, BOX	
69	*A-1678-087-A	BOX ASSY	70 - 71
70	4-200-999-01	STOPPER	
71	1-504-146-11	SPEAKER (5x11CM)	
72	4-308-870-00	CLIP, LEAD WIRE	
73	1-452-032-00	MAGNET, DISK; 10MM Ø	
74	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
75	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
76	3-701-007-00	BAND, BINDING	

SECTION 7

ELECTRICAL PARTS LIST

The components identified by shading and marked ⚠ are critical for safety.
Replace only with the part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS
MF : mF, PF : mmF

COILS
MMH : mH, μH : mH

A

REF.NO.	PART NO.	DESCRIPTION	REMARK
	*A-1632-266-A	A BOARD, COMPLETE *****************	(KV-C2901D/C2908D/C2909D)
	*A-1632-276-A	A BOARD, COMPLETE *****************	(KV-C2903B/C2908B/C2909B)
	*A-1632-277-A	A BOARD, COMPLETE *****************	(KV-C2903E/C2908E/C2909E)
	*A-1632-278-A	A BOARD, COMPLETE *****************	(KV-C2901A)
	*A-1632-279-A	A BOARD, COMPLETE *****************	(KV-C2901K/C2909K)
		< CAPACITOR >	
C1	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C2	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C3	1-126-964-11	ELECT 10MF 20% 50V	
C4	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C7	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C8	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C9	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C10	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C11	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C12	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C13	1-126-933-11	ELECT 100MF 20% 16V	
C15	1-163-105-00	CERAMIC CHIP 33PF 5% 50V	
C16	1-163-809-11	CERAMIC CHIP 0.047MF 10% 25V	
C17	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C18	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C19	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C21	1-163-037-11	CERAMIC CHIP 0.022MF 10% 25V	
C22	1-164-005-11	CERAMIC CHIP 0.47MF 25V	
C23	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C24	1-163-243-11	CERAMIC CHIP 47PF 5% 50V	
C30	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C101	1-124-927-11	ELECT 4.7MF 20% 50V	(KV-C2903B/C2908B/C2909B)
	1-126-233-11	ELECT 22MF 20% 50V	(EXCEPT KV-C2903B/C2908B/C2909B)
C102	1-126-966-11	ELECT 33MF 20% 50V	
C103	1-126-966-11	ELECT 33MF 20% 50V	
C104	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C105	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C106	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C107	1-164-346-11	CERAMIC CHIP 1MF 16V	
C108	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C109	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C112	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C113	1-124-126-00	ELECT 47MF 20% 16V	
C114	1-164-346-11	CERAMIC CHIP 1MF 16V	
C115	1-163-141-00	CERAMIC CHIP 0.001MF 5% 50V	
C117	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C118	1-164-489-11	CERAMIC CHIP 0.22MF 10% 16V	
C119	1-163-133-00	CERAMIC CHIP 470PF 5% 50V	
C120	1-164-337-11	CERAMIC CHIP 2.2MF 16V	
C121	1-124-126-00	ELECT 47MF 20% 16V	
C122	1-124-126-00	ELECT 47MF 20% 16V	
C123	1-163-090-00	CERAMIC CHIP 7PF 0.25PF 50V	
C124	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C125	1-164-337-11	CERAMIC CHIP 2.2MF 16V	
C126	1-164-337-11	CERAMIC CHIP 2.2MF 16V	
C127	1-126-966-11	ELECT 33MF 20% 50V	
C128	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C129	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C130	1-216-295-91	METAL GLAZE 0 5% 1/10W	
C131	1-124-126-00	ELECT 47MF 20% 16V	
C132	1-124-126-00	ELECT 47MF 20% 16V	
C134	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C135	1-124-126-00	ELECT 47MF 20% 16V	
C137	1-163-133-00	CERAMIC CHIP 470PF 5% 50V	
C139	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C142	1-163-133-00	CERAMIC CHIP 470PF 5% 50V	
C143	1-126-101-11	ELECT 100MF 20% 16V	(KV-C2903B/C2908B/C2909B)
C144	1-162-638-00	CERAMIC CHIP 1MF 16V	
C145	1-162-093-00	CERAMIC CHIP 10PF 5% 50V	(EXCEPT KV-C2901D/C2908D/C2909D)
C146	1-163-093-00	CERAMIC CHIP 10PF 5% 50V	(EXCEPT KV-C2901D/C2908D/C2909D)
C149	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	(KV-C2901K/C2909K)
	1-216-295-91	METAL GLAZE 0 5% 1/10W	(EXCEPT KV-C2901K/C2909K)
C152	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C153	1-164-337-11	CERAMIC CHIP 2.2MF 16V	
C154	1-163-105-00	CERAMIC CHIP 33PF 5% 50V	(KV-C2903B/C2908B/C2909B)
	1-163-113-00	CERAMIC CHIP 68PF 5% 50V	(EXCEPT KV-C2903B/C2908B/C2909B)
C155	1-163-093-00	CERAMIC CHIP 10PF 5% 50V	(EXCEPT KV-C2903B/C2908B/C2909B)
C157	1-163-105-00	CERAMIC CHIP 33PF 5% 50V	(EXCEPT KV-C2903B/C2908B/C2909B)
	1-163-113-00	CERAMIC CHIP 68PF 5% 50V	(KV-C2903B/C2908B/C2909B)

A

REF.NO.	PART NO.	DESCRIPTION			REMARK
C160	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C162	1-163-022-00	CERAMIC CHIP	0.012MF	10%	50V
					(KV-C2903B/C2908B/C2909B)
C163	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
					(KV-C2903B/C2908B/C2909B)
C164	1-163-119-00	CERAMIC CHIP	120PF	5%	50V
C165	1-126-933-11	ELECT	100MF	20%	16V
C201	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C202	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C203	1-126-964-11	ELECT	10MF	20%	50V
C204	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C205	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C206	1-164-346-11	CERAMIC CHIP	1MF		16V
C207	1-137-613-11	FILM	0.0018MF	2%	100V
C208	1-164-346-11	CERAMIC CHIP	1MF		16V
C209	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C210	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C211	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C212	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C215	1-163-023-00	CERAMIC CHIP	0.015MF	10%	50V
C216	1-163-011-11	CERAMIC CHIP	0.0015MF	10%	50V
C219	1-163-023-00	CERAMIC CHIP	0.015MF	10%	50V
C220	1-163-011-11	CERAMIC CHIP	0.0015MF	10%	50V
C221	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C222	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V
C225	1-130-489-00	FILM	0.033MF	5%	50V
C226	1-130-489-00	FILM	0.033MF	5%	50V
C227	1-163-020-00	CERAMIC CHIP	0.0082MF	10%	50V
C228	1-163-020-00	CERAMIC CHIP	0.0082MF	10%	50V
C229	1-164-346-11	CERAMIC CHIP	1MF		16V
C301	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C302	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C303	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C305	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C306	1-126-933-11	ELECT	100MF	20%	16V
C307	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C308	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C309	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C310	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C311	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C312	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C313	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C314	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C315	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C316	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C318	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C320	1-124-126-00	ELECT	47MF	20%	16V
C321	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C322	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C323	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C324	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C325	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C326	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C327	1-136-165-00	FILM	0.1MF	5%	50V
C328	1-164-337-11	CERAMIC CHIP	2.2MF		16V
C329	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C330	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C331	1-165-320-11	CERAMIC CHIP	0.47MF	10%	16V
C332	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C334	1-163-016-00	CERAMIC CHIP	0.0039MF	10%	50V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C335	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C336	1-126-933-11	ELECT	100MF	20%	16V
C337	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C338	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C339	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C342	1-126-964-11	ELECT	10MF	20%	50V
C346	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C347	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C348	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C349	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C350	1-165-320-11	CERAMIC CHIP	0.47MF	10%	16V
C351	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C352	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C353	1-124-126-00	ELECT	47MF	20%	16V
C355	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C359	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C361	1-126-964-11	ELECT	10MF	20%	50V
C362	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C363	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
					(KV-C2903B/C2908B/C2909B/C2901D/ C2908D/C2909D/C2901K/C2909K)
C365	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C382	1-126-964-11	ELECT	10MF	20%	50V
C383	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C399	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C401	1-124-126-00	ELECT	47MF	20%	16V
C402	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C403	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C404	1-124-126-00	ELECT	47MF	20%	16V
C406	1-126-964-11	ELECT	10MF	20%	50V
C407	1-164-346-11	CERAMIC CHIP	1MF		16V
C409	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C410	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C411	1-124-126-00	ELECT	47MF	20%	16V
C418	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C420	1-216-295-91	METAL GLAZE	0	5%	1/10W
C421	1-126-966-11	ELECT	33MF	20%	50V
C422	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C423	1-124-126-00	ELECT	47MF	20%	16V
C425	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C426	1-164-346-11	CERAMIC CHIP	1MF		16V
C427	1-124-126-00	ELECT	47MF	20%	16V
C428	1-164-346-11	CERAMIC CHIP	1MF		16V
C429	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C430	1-124-126-00	ELECT	47MF	20%	16V
C431	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C432	1-124-126-00	ELECT	47MF	20%	16V
C433	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C434	1-164-346-11	CERAMIC CHIP	1MF		16V
C435	1-126-933-11	ELECT	100MF	20%	16V
C436	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C437	1-164-346-11	CERAMIC CHIP	1MF		16V
C438	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C445	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1002	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1003	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C1004	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C1005	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C1006	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C1007	1-163-125-00	CERAMIC CHIP	220PF	5%	50V

REF.NO.	PART NO.	DESCRIPTION		REMARK
C1008	1-163-125-00	CERAMIC CHIP 220PF	5%	50V
C1009	1-163-097-00	CERAMIC CHIP 15PF	5%	50V
C1011	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C1013	1-164-346-11	CERAMIC CHIP 1MF		16V
C1015	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C1016	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C1018	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1019	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1020	1-126-233-11	ELECT 22MF	20%	50V
C1021	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1024	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C1025	1-124-126-00	ELECT 47MF	20%	16V
C1026	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1027	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1028	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1029	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1030	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1031	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1032	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1033	1-126-964-11	ELECT 10MF	20%	50V
C1034	1-164-346-11	CERAMIC CHIP 1MF		16V

< C1101-C1139 FITTED ON >
< KV-C2903B/C2908B/C2909B/C2903E/C2908E/C2909E >

REF.NO.	PART NO.	DESCRIPTION		REMARK
C1101	1-163-131-00	CERAMIC CHIP 390PF	5%	50V
C1102	1-163-093-00	CERAMIC CHIP 10PF	5%	50V
C1103	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1104	1-126-964-11	ELECT 10MF	20%	50V
C1105	1-126-964-11	ELECT 10MF	20%	50V
C1106	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1107	1-124-126-00	ELECT 47MF	20%	16V
C1108	1-126-964-11	ELECT 10MF	20%	50V
C1110	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V
C1111	1-164-489-11	CERAMIC CHIP 0.22MF	10%	16V
C1112	1-164-489-11	CERAMIC CHIP 0.22MF	10%	16V
C1113	1-163-137-00	CERAMIC CHIP 680PF	5%	50V
C1116	1-124-126-00	ELECT 47MF	20%	16V
C1117	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1118	1-124-126-00	ELECT 47MF	20%	16V
C1119	1-124-126-00	ELECT 47MF	20%	16V
C1120	1-163-137-00	CERAMIC CHIP 680PF	5%	50V
C1122	1-124-126-00	ELECT 47MF	20%	16V
C1123	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1124	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1125	1-165-320-11	CERAMIC CHIP 0.47MF	10%	16V
C1126	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
C1127	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
C1128	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V
C1129	1-162-568-11	CERAMIC CHIP 0.33MF		25V
C1130	1-124-903-11	ELECT 1MF	20%	50V
C1131	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1132	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1133	1-124-126-00	ELECT 47MF	20%	16V
C1134	1-126-964-11	ELECT 10MF	20%	50V
C1135	1-163-125-00	CERAMIC CHIP 220PF	5%	50V
C1136	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C1137	1-163-095-00	CERAMIC CHIP 12PF	5%	50V
C1139	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V

< FILTER >

REF.NO.	PART NO.	DESCRIPTION	REMARK
CF101	1-760-154-11	TRAP, CERAMIC	
CF102	1-404-134-00	TRAP, CERAMIC (5.5MHZ)	(EXCEPT KV-C2903B/C2908B/C2909B)
	1-404-430-11	TRAP, CERAMIC (6.5MHZ)	(KV-C2903B/C2908B/C2909B)
CF103	1-760-106-11	FILTER, CERAMIC	
CF104	1-567-100-11	FILTER, CERAMIC	(KV-C2903B/C2908B/C2909B)
	1-567-101-00	FILTER, CERAMIC	(KV-C2901D/C2908D/C2909D/C2901K/C2909K)
CF106	1-760-107-11	FILTER, CERAMIC	
CF108	1-760-107-11	FILTER, CERAMIC	(KV-C2901D/C2908D/C2909D)
SWF101	1-579-273-11	FILTER, SURFACE WAVE	
SWF102	1-760-244-11	FILTER, SURFACE WAVE	(KV-C2903B/C2908B/C2909B)
	1-760-329-11	FILTER, SURFACE WAVE	(EXCEPT KV-C2903B/C2908B/C2909B)

< CONNECTOR >

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN001	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P	
CN002	*1-568-882-51	PIN, CONNECTOR 7P	
CN003	*1-568-879-11	PIN, CONNECTOR 4P	

< DIODE >

REF.NO.	PART NO.	DESCRIPTION	REMARK
D1	8-719-023-25	DIODE MA704WK	
D6	8-719-047-41	DIODE UMZ12N	
D7	8-719-988-62	DIODE 1SS355	
D9	8-719-988-62	DIODE 1SS355	
D11	8-719-988-62	DIODE 1SS355	
D101	8-719-977-81	DIODE DTZ33B	
D102	8-719-914-43	DIODE DAN202K	(KV-C2903B/C2908B/C2909B)
D103	8-719-914-43	DIODE DAN202K	(KV-C2903B/C2908B/C2909B/C2901D/C2908D/C2909D/C2901K/C2909K)
D201	8-719-914-42	DIODE DA204K	
D301	8-719-988-62	DIODE 1SS355	
D303	8-719-988-62	DIODE 1SS355	
D304	8-719-988-62	DIODE 1SS355	
D305	8-719-988-62	DIODE 1SS355	
D314	8-719-047-16	DIODE BAS216	
D315	8-719-988-62	DIODE 1SS355	
D380	1-216-295-91	METAL GLAZE 0 5% 1/10W	
D401	8-719-047-41	DIODE UMZ12N	
D402	8-719-047-41	DIODE UMZ12N	
D404	8-719-047-41	DIODE UMZ12N	
D405	8-719-047-41	DIODE UMZ12N	
D406	8-719-047-41	DIODE UMZ12N	
D407	8-719-047-41	DIODE UMZ12N	
D408	8-719-047-41	DIODE UMZ12N	
D409	8-719-047-41	DIODE UMZ12N	
D410	8-719-047-41	DIODE UMZ12N	
D411	8-719-047-41	DIODE UMZ12N	
D1002	8-719-914-43	DIODE DAN202K	
D1101	8-719-988-62	DIODE 1SS355	(KV-C2903B/C2908B/C2909B/C2903E/C2908E/C2909E)

A

REF.NO.	PART NO.	DESCRIPTION	REMARK
D1102	8-719-820-71	DIODE 1SV214 (KV-C2903B/C2908B/C2909B/C2903E/ C2908E/C2909E)	

< IC >

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC001	8-752-863-45	IC CXP85340A-SVS190 (EXCEPT KV-C2903E/C2908E/C2909E)	
	8-752-864-34	IC CXP85340A-SV5190 (KV-C2903E/C2908E/C2909E)	
IC002	8-759-334-20	IC ST24E32M6TR	
IC003	8-759-041-54	IC MN1382S	
IC101	8-759-277-66	IC TDA9814T/V2 (KV-C2903B/C2908B/C2909B)	
	8-759-289-18	IC TDA9813T (EXCEPT KV-C2903B/C2908B/C2909B)	
IC201	8-759-252-14	IC TDA6612-5X-GEG	
IC202	8-759-514-57	IC BA7046F	
IC301	8-759-366-44	IC TDA8366T-N3M	
IC302	8-759-288-85	IC TDA4665T	
IC303	8-759-251-56	IC TDA8395T (KV-C2903B/C2908B/C2909B/C2901D/ C2908D/C2909D/C2901K/C2909K)	
IC401	8-752-069-53	IC CXA1855Q	
IC1001	8-759-295-92	IC CF72416DW-R	
IC1002	8-759-252-10	IC CF70200FN-R (KV-C2901A/C2903E/C2908E/C2909E/ C2903B/C2908B/C2909B/C2901K/C2909K)	
	8-759-336-09	IC CF70203FN-F (KV-C2901D/C2908D/C2909D)	
IC1003	8-759-300-71	IC HD14053BFP	
IC1101	8-759-251-58	IC SAA7283T (KV-C2903B/C2908B/C2909B/C2903E/ C2908E/C2909E)	

< SOCKET >

REF.NO.	PART NO.	DESCRIPTION	REMARK
J401	1-766-296-11	CONNECTOR, DUAL SCART	

< COIL >

REF.NO.	PART NO.	DESCRIPTION	REMARK
L1	1-410-385-11	INDUCTOR CHIP 22UH	
L100	1-410-989-11	INDUCTOR CHIP 0.47UH	
L101	1-408-609-41	INDUCTOR 33UH	
L102	1-410-214-31	INDUCTOR CHIP 68UH	
L103	1-408-609-41	INDUCTOR 33UH	
L104	1-414-170-11	INDUCTOR CHIP 100UH (KV-C2903B/C2908B/C2909B)	
L105	1-408-406-00	INDUCTOR 5.6UH (KV-C2903B/C2908B/C2909B)	
	1-408-410-00	INDUCTOR 12UH (EXCEPT KV-C2903B/C2908B/C2909B)	
L106	1-412-011-31	INDUCTOR CHIP 27UH	
L107	1-410-985-11	INDUCTOR CHIP 0.22UH	
L108	1-408-414-00	INDUCTOR 27UH (KV-C2903B/C2908B/C2909B)	
	1-408-609-41	INDUCTOR 33UH (EXCEPT KV-C2903B/C2908B/C2909B)	
L109	1-412-010-41	INDUCTOR CHIP 22UH	
L110	1-412-004-31	INDUCTOR CHIP 6.8UH	
L111	1-414-170-11	INDUCTOR CHIP 100UH	
L112	1-410-200-31	INDUCTOR CHIP 4.7UH	

REF.NO.	PART NO.	DESCRIPTION	REMARK
L201	1-410-067-21	INDUCTOR 4.7MMH	
L307	1-408-609-41	INDUCTOR 33UH	
L308	1-408-424-00	INDUCTOR 180UH	
L309	1-408-424-00	INDUCTOR 180UH	
L310	1-408-407-00	INDUCTOR 6.8UH	
L313	1-216-295-91	METAL GLAZE 0 5% 1/10W	
L315	1-412-008-11	INDUCTOR CHIP 15UH	
L401	1-410-214-31	INDUCTOR CHIP 68UH	
L1001	1-408-419-00	INDUCTOR 68UH	
L1002	1-408-419-00	INDUCTOR 68UH	
L1003	1-410-999-11	INDUCTOR CHIP 3.3UH	
L1101	1-412-004-31	INDUCTOR CHIP 6.8UH (KV-C2903B/C2908B/C2909B/C2903E/ C2908E/C2909E)	

< TRANSISTOR >

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q1	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q2	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q4	8-729-901-01	TRANSISTOR DTC144EK	
Q8	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q11	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q12	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q14	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q102	8-729-144-93	TRANSISTOR MPA502T	
Q103	8-729-900-53	TRANSISTOR DTC114EK (KV-C2903B/C2908B/C2909B)	
Q104	8-729-900-53	TRANSISTOR DTC114EK (KV-C2903B/C2908B/C2909B)	
Q105	8-729-900-53	TRANSISTOR DTC114EK (KV-C2903B/C2908B/C2909B)	
Q107	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q108	8-729-907-26	TRANSISTOR IMX1	
Q109	8-729-907-26	TRANSISTOR IMX1	
Q114	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q116	8-729-901-01	TRANSISTOR DTC144EK (KV-C2903B/C2908B/C2909B/C2901D/ C2908D/C2909D/C2901K/C2909K)	
Q117	8-729-901-01	TRANSISTOR DTC144EK (KV-C2903B/C2908B/C2909B/C2901D/ C2908D/C2909D/C2901K/C2909K)	
Q120	8-729-216-22	TRANSISTOR 2SA1162-G	
Q121	8-729-216-22	TRANSISTOR 2SA1162-G (KV-C2903B/C2908B/C2909B)	
Q123	8-729-901-01	TRANSISTOR DTC144EK	
Q124	8-729-901-01	TRANSISTOR DTC144EK	
Q125	8-729-900-53	TRANSISTOR DTC114EK (KV-C2903B/C2908B/C2909B)	
Q130	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q131	8-729-216-22	TRANSISTOR 2SA1162-G	
Q132	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q133	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q134	8-729-900-53	TRANSISTOR DTC114EK	
Q301	8-729-901-01	TRANSISTOR DTC144EK	
Q304	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q312	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q313	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q314	8-729-900-53	TRANSISTOR DTC114EK	
Q380	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q381	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q401	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q402	8-729-920-74	TRANSISTOR 2SC2412K-QR	

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q403	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q404	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q406	8-729-216-22	TRANSISTOR 2SA1162-G	
Q407	8-729-920-65	TRANSISTOR DTC123EK	
Q408	8-729-920-74	TRANSISTOR 2SC2412K-QR	
Q1001	8-729-920-74	TRANSISTOR 2SC2412K-QR	
		< RESISTOR >	
JR3	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR8	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR9	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR10	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR12	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR13	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR14	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR15	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR16	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR17	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR18	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR19	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR22	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR25	1-412-006-31	INDUCTOR CHIP 10UH	
JR26	1-412-006-31	INDUCTOR CHIP 10UH	
JR28	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR29	1-412-006-31	INDUCTOR CHIP 10UH	
JR51	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR52	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR55	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR56	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR59	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR60	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR61	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR62	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR65	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR69	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR71	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR120	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR122	1-216-295-91	METAL GLAZE 0 5% 1/10W	(EXCEPT KV-C2903B/C2908B/C2909B)
JR123	1-216-295-91	METAL GLAZE 0 5% 1/10W	(EXCEPT KV-C2903B/C2908B/C2909B)
JR124	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR125	1-216-295-91	METAL GLAZE 0 5% 1/10W	(KV-C2901A/C2903E/C2908E/C2909E)
JR126	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR201	1-216-295-91	METAL GLAZE 0 5% 1/10W	(KV-C2901A/C2901D/C2908D/ C2909D/C2901K/C2909K)
JR202	1-216-295-91	METAL GLAZE 0 5% 1/10W	(KV-C2901A/C2901D/C2908D/ C2909D/C2901K/C2909K)
JR302	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR401	1-216-295-91	METAL GLAZE 0 5% 1/10W	(KV-C2903B/C2908B/C2909B)
JR402	1-216-295-91	METAL GLAZE 0 5% 1/10W	(KV-C2903B/C2908B/C2909B)
JR403	1-216-295-91	METAL GLAZE 0 5% 1/10W	(KV-C2903B/C2908B/C2909B)
JR408	1-216-295-91	METAL GLAZE 0 5% 1/10W	
JR1004	1-216-295-91	METAL GLAZE 0 5% 1/10W	
R1	1-216-222-00	METAL GLAZE 10K 5% 1/8W	
R2	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R6	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R20	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R21	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R24	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R25	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R26	1-216-174-00	METAL GLAZE 100 5% 1/8W	
R27	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R29	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R31	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R33	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W	
R35	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R37	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R38	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R41	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R42	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R43	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R44	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
R46	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R47	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R49	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R50	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R51	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R52	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R53	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R54	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R55	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R56	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R57	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R58	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R59	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
R60	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R61	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R62	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R63	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R64	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R66	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R67	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R68	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R69	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R70	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R71	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R72	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R73	1-216-677-11	METAL CHIP 12K 0.50% 1/10W	
R75	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R76	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R77	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R78	1-216-037-00	METAL GLAZE 330 5% 1/10W	
R79	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R82	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R83	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R84	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R85	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R86	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R87	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R88	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R89	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R90	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R91	1-216-049-00	METAL GLAZE 1K 5% 1/10W	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
R92	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R93	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R94	1-216-039-00	METAL GLAZE 390 5% 1/10W	
R95	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R96	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
R97	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R99	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R101	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R103	1-216-679-11	METAL CHIP 15K 0.50% 1/10W	
R104	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R105	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R106	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R107	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R108	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R109	1-216-180-00	METAL GLAZE 180 5% 1/8W	
R110	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R111	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R112	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R113	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R114	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R115	1-218-755-11	METAL CHIP 130K 0.50% 1/10W	
R116	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R117	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R118	1-216-107-00	METAL GLAZE 270K 5% 1/10W	
R119	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R120	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R121	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R122	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R123	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R124	1-216-031-00	METAL GLAZE 180 5% 1/10W	
R125	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R126	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R127	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R128	1-216-043-91	METAL GLAZE 560 5% 1/10W	
R130	1-216-043-91	METAL GLAZE 560 5% 1/10W	
R131	1-216-043-91	METAL GLAZE 560 5% 1/10W	
R134	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	(KV-C2903B/C2908B/C2909B/C2901D/ C2908D/C2909D/C2901K/C2909K)
R135	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	(KV-C2903B/C2908B/C2909B/C2901D/ C2908D/C2909D/C2901K/C2909K)
R136	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R137	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R139	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R140	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R141	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R142	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R143	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	(KV-C2903B/C2908B/C2909B/C2901D/ C2908D/C2909D/C2901K/C2909K)
R144	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R145	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R146	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R147	1-216-031-00	METAL GLAZE 180 5% 1/10W	(KV-C2903B/C2908B/C2909B)
	1-216-033-00	METAL GLAZE 220 5% 1/10W	(EXCEPT KV-C2903B/C2908B/C2909B)
R148	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R149	1-216-049-00	METAL GLAZE 1K 5% 1/10W	

REF.NO.	PART NO.	DESCRIPTION	REMARK
R150	1-216-295-91	METAL GLAZE 0 5% 1/10W	
R151	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R152	1-216-174-00	METAL GLAZE 100 5% 1/8W	
R153	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
R154	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
R155	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R156	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R157	1-216-295-91	METAL GLAZE 0 5% 1/10W	
R160	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R161	1-216-031-00	METAL GLAZE 180 5% 1/10W	
R162	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R163	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R164	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R165	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R166	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R167	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R168	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R170	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R171	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R172	1-216-295-91	METAL GLAZE 0 5% 1/10W	
R173	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R174	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R175	1-216-049-00	METAL GLAZE 1K 5% 1/10W	(KV-C2901K/C2909K)
R180	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R182	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R183	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R185	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
R186	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
R193	1-216-049-00	METAL GLAZE 1K 5% 1/10W	(KV-C2903B/C2908B/C2909B)
R194	1-216-180-00	METAL GLAZE 180 5% 1/8W	
R195	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R196	1-216-017-00	METAL GLAZE 47 5% 1/10W	
R197	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R198	1-216-029-00	METAL GLAZE 150 5% 1/10W	
R199	1-216-049-00	METAL GLAZE 1K 5% 1/10W	(EXCEPT KV-C2903B/C2908B/C2909B)
	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W	(KV-C2903B/C2908B/C2909B)
R200	1-216-047-00	METAL GLAZE 820 5% 1/10W	
R201	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R202	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R203	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R204	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R205	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R206	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R207	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R210	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R211	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R213	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R216	1-216-685-11	METAL CHIP 27K 0.50% 1/10W	
R217	1-216-031-00	METAL GLAZE 180 5% 1/10W	
R219	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R220	1-216-174-00	METAL GLAZE 100 5% 1/8W	
R221	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R222	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R223	1-216-029-00	METAL GLAZE 150 5% 1/10W	
R224	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R301	1-216-025-00	METAL GLAZE 100 5% 1/10W	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
R302	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
R303	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R305	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R308	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R309	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R311	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R313	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R315	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R316	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R317	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R318	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R319	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R320	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R321	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R322	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R326	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
R327	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R328	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R329	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R330	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R331	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R332	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R333	1-216-689-11	METAL CHIP 39K 0.50% 1/10W	
R340	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R341	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
R342	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R352	1-216-123-11	METAL GLAZE 1.2M 5% 1/10W	
R354	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R355	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
R356	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R364	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R365	1-216-027-00	METAL GLAZE 120 5% 1/10W	
R370	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R371	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R372	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R373	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R380	1-216-222-00	METAL GLAZE 10K 5% 1/8W	
R381	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R382	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R383	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R384	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R385	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R386	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R387	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R388	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R389	1-216-041-00	METAL GLAZE 470 5% 1/10W	
R390	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R392	1-216-091-00	METAL GLAZE 56K 5% 1/10W	
R393	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R401	1-216-039-00	METAL GLAZE 390 5% 1/10W	
R402	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R403	1-216-039-00	METAL GLAZE 390 5% 1/10W	
R404	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R405	1-216-039-00	METAL GLAZE 390 5% 1/10W	
R406	1-216-039-00	METAL GLAZE 390 5% 1/10W	
R407	1-216-198-91	METAL GLAZE 1K 5% 1/8W	
R408	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R409	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R410	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R413	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R415	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R417	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R419	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R420	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R421	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R422	1-216-022-00	METAL GLAZE 75 5% 1/10W	
R423	1-216-093-00	METAL GLAZE 68K 5% 1/10W	
R424	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R425	1-216-022-00	METAL GLAZE 75 5% 1/10W	
R426	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R427	1-216-188-00	METAL GLAZE 390 5% 1/8W	
R429	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R430	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R431	1-216-188-00	METAL GLAZE 390 5% 1/8W	
R432	1-216-039-00	METAL GLAZE 390 5% 1/10W	
R433	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R434	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R435	1-216-039-00	METAL GLAZE 390 5% 1/10W	
R436	1-216-022-00	METAL GLAZE 75 5% 1/10W	
R437	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R438	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R439	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
R440	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R441	1-216-022-00	METAL GLAZE 75 5% 1/10W	
R442	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R443	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R444	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
R445	1-216-113-00	METAL GLAZE 470K 5% 1/10W	
R446	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R447	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R448	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R449	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
R454	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
R458	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R461	1-216-022-00	METAL GLAZE 75 5% 1/10W	
R464	1-216-034-00	METAL GLAZE 240 5% 1/10W	
R465	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R473	1-216-022-00	METAL GLAZE 75 5% 1/10W	
R474	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R482	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R483	1-216-029-00	METAL GLAZE 150 5% 1/10W	
R484	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R485	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R486	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R487	1-216-022-00	METAL GLAZE 75 5% 1/10W	
R488	1-216-022-00	METAL GLAZE 75 5% 1/10W	
R489	1-216-022-00	METAL GLAZE 75 5% 1/10W	
R490	1-216-295-91	METAL GLAZE 0 5% 1/10W	
R491	1-216-295-91	METAL GLAZE 0 5% 1/10W	
R492	1-216-295-91	METAL GLAZE 0 5% 1/10W	
R1001	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1002	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R1004	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1008	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R1009	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R1010	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R1011	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R1012	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
R1014	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R1015	1-216-025-00	METAL GLAZE 100 5% 1/10W	

A **C**

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and marked ⚠ are critical for safety.
Replace only with the part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
R1016	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1025	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R1026	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R1027	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R1029	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R1101	1-216-025-00	METAL GLAZE 100 5% 1/10W (KV-C2903B/C2908B/C2909B/C2903E/C2908E/C2909E)	
R1102	1-216-049-00	METAL GLAZE 1K 5% 1/10W (KV-C2903B/C2908B/C2909B/C2903E/C2908E/C2909E)	
R1103	1-220-149-11	METAL GLAZE 2.2 10% 1/2W (KV-C2903B/C2908B/C2909B/C2903E/C2908E/C2909E)	
R1104	1-216-085-00	METAL GLAZE 33K 5% 1/10W (KV-C2903B/C2908B/C2909B/C2903E/C2908E/C2909E)	
R1105	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W (KV-C2903B/C2908B/C2909B/C2903E/C2908E/C2909E)	

< R1106-R1118 FITTED ON >
< KV-C2903B/C2908B/C2909B/C2903E/C2908E/C2909E >

R1106	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1107	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R1108	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
R1109	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
R1110	1-220-238-11	METAL GLAZE 10 5% 1/4W	
R1111	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R1112	1-216-025-00	METAL GLAZE 100 5% 1/10W	
R1113	1-216-117-00	METAL GLAZE 680K 5% 1/10W	
R1114	1-216-158-00	METAL GLAZE 22 5% 1/8W	
R1115	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
R1116	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R1117	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
R1118	1-220-149-11	METAL GLAZE 2.2 10% 1/2W	

< RESISTOR NETWORK >

RA2	1-236-908-11	RESISTOR, NETWORK (CHIP TYPE)	
RA3	1-236-908-11	RESISTOR, NETWORK (CHIP TYPE)	

< VARIABLE RESISTOR >

RV102	1-241-765-11	RES, ADJ, CARBON 22K (KV-C2903B/C2908B/C2909B)	

< TRANSFORMER >

T101	1-403-686-11	COIL	

< TUNER >

TU101	1-693-185-11	TUNER (UV916H)	

< CRYSTAL >

X2	1-579-063-21	VIBRATOR, CERAMIC	
X301	1-567-505-11	OSCILLATOR, CRYSTAL	
X302	1-567-504-11	OSCILLATOR, CRYSTAL	
X1001	1-567-495-11	OSCILLATOR, CRYSTAL (EXCEPT KV-C2903B/C2908B/C2909B)	
X1101	1-579-689-21	VIBRATOR, CRYSTAL (KV-C2903B/C2908B/C2909B/C2903E/C2908E/C2909E)	

REF.NO.	PART NO.	DESCRIPTION	REMARK
	*A-1638-058-A	C BOARD, COMPLETE *****************	

< CAPACITOR >

C702	1-102-824-00	CERAMIC 470PF 5% 50V	
C703	1-164-082-11	CERAMIC 560PF 10% 50V	
C708	1-162-114-00	CERAMIC 0.0047MF 2KV	
C710	1-123-947-00	ELECT 10MF 20% 250V	
C712	1-164-082-11	CERAMIC 560PF 10% 50V	
C714	1-124-360-00	ELECT 1000MF 20% 16V	
C717	1-102-114-00	CERAMIC 470PF 10% 50V	
C718	1-102-114-00	CERAMIC 470PF 10% 50V	
C719	1-102-114-00	CERAMIC 470PF 10% 50V	

< CONNECTOR >

CN701	1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P	
CN702	1-695-915-11	TAB (CONTACT)	
CN703	*1-568-882-51	PIN, CONNECTOR 7P	

< DIODE >

D701	8-719-110-14	DIODE RD9.1ESB3	
D702	8-719-901-33	DIODE 1SS133	
D706	8-719-901-33	DIODE 1SS133	
D707	8-719-901-33	DIODE 1SS133	
D708	8-719-901-33	DIODE 1SS133	
D709	8-719-901-33	DIODE 1SS133	
D710	8-719-901-33	DIODE 1SS133	
D711	8-719-302-43	DIODE EL1Z	
D713	8-719-901-33	DIODE 1SS133	
D714	8-719-901-33	DIODE 1SS133	
D715	8-719-901-33	DIODE 1SS133	
D716	8-719-901-33	DIODE 1SS133	
D717	8-719-901-33	DIODE 1SS133	
D718	8-719-901-33	DIODE 1SS133	
D719	8-719-901-33	DIODE 1SS133	

< CRT SOCKET >

J701 ⚠	1-526-990-22	SOCKET, CRT	

< COIL >

L704	1-408-609-41	INDUCTOR 33UH	

< TRANSISTOR >

Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q703	8-729-906-70	TRANSISTOR BF871	
Q704	8-729-200-17	TRANSISTOR 2SA1091-O	
Q705	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q706	8-729-906-70	TRANSISTOR BF871	
Q707	8-729-200-17	TRANSISTOR 2SA1091-O	
Q708	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q709	8-729-906-70	TRANSISTOR BF871	
Q710	8-729-200-17	TRANSISTOR 2SA1091-O	

< RESISTOR >

R704	1-216-486-00	METAL OXIDE 8.2K 5% 3W	F
R705	1-202-822-00	SOLID 2.2K 10% 1/2W	
R706	1-249-409-11	CARBON 220 5% 1/4W	
R707	1-249-408-11	CARBON 180 5% 1/4W	
R709	1-202-844-00	SOLID 330K 10% 1/2W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
R711	1-249-420-11	CARBON	1.8K	5%	1/4W	
R712	1-202-822-00	SOLID	2.2K	10%	1/2W	
R713	1-215-493-00	METAL	1M	1%	1/4W	
R714	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R715	1-249-417-11	CARBON	1K	5%	1/4W	
R716	1-249-409-11	CARBON	220	5%	1/4W	
R717	1-249-408-11	CARBON	180	5%	1/4W	
R718	1-202-814-11	SOLID	33K	10%	1/2W	
R720	1-249-420-11	CARBON	1.8K	5%	1/4W	
R722	1-202-848-00	SOLID	680K	10%	1/2W	
R723	1-249-417-11	CARBON	1K	5%	1/4W	
R724	1-202-846-00	SOLID	470K	10%	1/2W	
R726	1-202-822-00	SOLID	2.2K	10%	1/2W	
R727	1-249-409-11	CARBON	220	5%	1/4W	
R728	1-216-350-11	METAL OXIDE	1.2	5%	1W	F
R729	1-249-408-11	CARBON	180	5%	1/4W	
R731	1-249-420-11	CARBON	1.8K	5%	1/4W	
R732	1-215-479-00	METAL	270K	1%	1/4W	
R734	1-247-807-31	CARBON	100	5%	1/4W	
R736	1-216-486-00	METAL OXIDE	8.2K	5%	3W	F
R737	1-215-485-00	METAL	470K	1%	1/4W	
R739	1-249-417-11	CARBON	1K	5%	1/4W	
R741	1-202-549-00	SOLID	100	20%	1/2W	
R744	1-249-426-11	CARBON	5.6K	5%	1/4W	
R745	1-249-426-11	CARBON	5.6K	5%	1/4W	
R746	1-249-426-11	CARBON	5.6K	5%	1/4W	

< VARIABLE RESISTOR >

RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M
RV702	1-241-656-11	RES, ADJ, METAL FILM 110M

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*A-1640-173-A D2 BOARD, COMPLETE
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< CAPACITOR >

C1840	1-107-714-11	ELECT	10MF	20%	50V
C1841	1-107-714-11	ELECT	10MF	20%	50V
C1842	1-107-714-11	ELECT	10MF	20%	50V
C1843	1-137-364-11	FILM	0.001MF	5%	50V
C1844	1-124-903-11	ELECT	1MF	20%	50V
C1851	1-126-103-11	ELECT	470MF	20%	16V
C1854	1-126-967-11	ELECT	47MF	20%	50V
C1855	1-137-370-11	FILM	0.01MF	5%	50V
C1858	1-137-364-11	FILM	0.001MF	5%	50V
C1859	1-137-364-11	FILM	0.001MF	5%	50V
C1860	1-130-489-00	FILM	0.033MF	5%	50V
C1861	1-130-489-00	FILM	0.033MF	5%	50V
C1863	1-136-104-00	FILM	0.16MF	5%	200V
C1867	1-126-103-11	ELECT	470MF	20%	16V
C1892	1-130-489-00	FILM	0.033MF	5%	50V

< CONNECTOR >

CN1823	1-573-299-21	CONNECTOR, BOARD TO BOARD 10P
CN1824	1-568-878-51	PLUG, CONNECTOR, 3P

< DIODE >

D1856	8-719-901-33	DIODE 1SS133
D1867	8-719-987-87	DIODE ERA85-009
D1868	8-719-987-87	DIODE ERA85-009

REF.NO.	PART NO.	DESCRIPTION
D1882	8-719-010-34	DIODE UZ-4.7BSC
D1883	8-719-010-34	DIODE UZ-4.7BSC

< IC >

IC1851	8-759-991-41	IC LM78L05ACZ
IC1852	8-759-603-37	IC M5216P
IC1853	8-759-902-21	IC SN74LS221N

< COIL >

L1852	1-459-390-00	COIL (WITH CORE)

< TRANSISTOR >

Q1851	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q1854	8-729-173-38	TRANSISTOR 2SA733-K
Q1855	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q1856	8-729-017-05	TRANSISTOR 2SA1837
Q1857	8-729-122-03	TRANSISTOR 2SA1220A-P
Q1858	8-729-920-92	TRANSISTOR 2SD2096-EF
Q1859	8-729-173-38	TRANSISTOR 2SA733-K
Q1860	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q1861	8-729-017-06	TRANSISTOR 2SC4793

< RESISTOR >

						REMARK
R1840	1-249-435-11	CARBON	33K	5%	1/4W	
R1841	1-249-438-11	CARBON	56K	5%	1/4W	
R1842	1-215-860-11	METAL	33	5%	1W	
R1843	1-215-860-11	METAL	33	5%	1W	
R1852	1-249-437-11	CARBON	47K	5%	1/4W	
R1853	1-249-438-11	CARBON	56K	5%	1/4W	
R1854	1-249-429-11	CARBON	10K	5%	1/4W	
R1858	1-247-885-00	CARBON	180K	5%	1/4W	
R1860	1-249-403-11	CARBON	68	5%	1/4W	
R1861	1-249-429-11	CARBON	10K	5%	1/4W	
R1862	1-249-420-11	CARBON	1.8K	5%	1/4W	
R1873	1-215-909-11	METAL OXIDE	47	5%	3W	F
R1875	1-215-453-00	METAL	22K	1%	1/4W	
R1877	1-249-441-11	CARBON	100K	5%	1/4W	
R1878	1-260-091-11	CARBON	220	5%	1/2W	
R1881	1-260-091-11	CARBON	220	5%	1/2W	
R1882	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R1893	1-215-909-11	METAL OXIDE	47	5%	3W	F
R1894	1-249-408-11	CARBON	180	5%	1/4W	
R1895	1-249-417-11	CARBON	1K	5%	1/4W	
R1898	1-249-411-11	CARBON	330	5%	1/4W	
R1899	1-249-411-11	CARBON	330	5%	1/4W	

< VARIABLE RESISTOR >

RV1851	1-241-765-11	RES, ADJ, CERMET 22K
RV1853	1-241-628-11	RES, ADJ, CARBON 2.2K
RV1854	1-241-784-11	RES, ADJ, CARBON 4.7K

< TRANSFORMER >

T1851	1-423-786-11	TRANSFORMER, FERRITE (VPOT)

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Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and marked ⚠ are critical for safety.
Replace only with the part number specified.

D

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*A-1642-147-A	D BOARD, COMPLETE *****************			
	4-201-023-01	SPACER, INSULATING			
	4-201-057-01	COVER, FUSE			
	4-202-373-01	SPRING, IC			
	4-812-134-00	RIVET NYLON, 3.5			
		< CAPACITOR >			
C502	1-102-824-00	CERAMIC	470PF	5%	50V
C503	1-136-165-00	FILM	0.1MF	5%	50V
C504	1-102-824-00	CERAMIC	470PF	5%	50V
C506	1-126-941-11	ELECT	470MF	20%	25V
C507	1-109-953-11	ELECT	2.2MF	20%	50V
C509	1-136-165-00	FILM	0.1MF	5%	50V
C510	1-126-969-11	ELECT	220MF	20%	50V
C511	1-136-202-11	FILM	0.33MF	5%	63V
C513	1-106-220-00	MYLAR	0.1MF	10%	100V
C514	1-136-165-00	FILM	0.1MF	5%	50V
C515	1-126-941-11	ELECT	470MF	20%	25V
C517	1-126-941-11	ELECT	470MF	20%	25V
C518	1-102-228-00	CERAMIC	470PF	10%	500V
C519	1-102-228-00	CERAMIC	470PF	10%	500V
C520	1-126-941-11	ELECT	470MF	20%	25V
C521	1-124-006-11	ELECT	10MF	20%	25V
C522	1-126-964-11	ELECT	10MF	20%	50V
C523	1-136-165-00	FILM	0.1MF	5%	50V
C600 ⚠	1-164-503-61	CERAMIC	0.0022MF	20%	400V
C601 ⚠	1-161-964-91	CERAMIC	0.0047MF		250V
C602 ⚠	1-161-964-91	CERAMIC	0.0047MF		250V
C603	1-125-318-00	ELECT(BLOCK)	220MF	20%	400V
C604	1-124-122-11	ELECT	100MF	20%	50V
C605	1-107-929-11	ELECT	10MF	20%	100V
C606	1-162-318-11	CERAMIC	0.001MF	10%	500V
C607	1-104-666-11	ELECT	220MF	20%	25V
C608	1-109-880-11	FILM	0.0015MF	3%	2KV
C611	1-102-228-00	CERAMIC	470PF	10%	500V
C612	1-104-799-11	ELECT	22MF	20%	100V
C613	1-124-347-00	ELECT	100MF	20%	160V
C614	1-126-804-11	ELECT	100MF	20%	25V
C615	1-126-376-11	ELECT	470MF	20%	25V
C616	1-110-639-11	ELECT	1000MF	20%	25V
C617	1-107-884-11	ELECT	1000MF	20%	16V
C618	1-136-165-00	FILM	0.1MF	5%	50V
C619	1-102-228-00	CERAMIC	470PF	10%	500V
C620	1-102-228-00	CERAMIC	470PF	10%	500V
C621	1-136-165-00	FILM	0.1MF	5%	50V
C622	1-104-797-11	ELECT	0.47MF	20%	100V
C623	1-104-666-11	ELECT	220MF	20%	25V
C624	1-136-165-00	FILM	0.1MF	5%	50V
C625	1-126-967-11	ELECT	47MF	20%	50V
C626	1-104-666-11	ELECT	220MF	20%	25V
C627	1-104-666-11	ELECT	220MF	20%	25V
C628	1-126-964-11	ELECT	10MF	20%	50V
C629	1-126-800-51	ELECT	2200MF	20%	25V
C630	1-126-800-51	ELECT	2200MF	20%	25V
C631	1-126-233-11	ELECT	22MF	20%	50V
C632	1-104-666-11	ELECT	220MF	20%	25V
C633 ⚠	1-107-564-11	FILM	0.22MF	20%	300V
C634 ⚠	1-107-564-11	FILM	0.22MF	20%	300V
C635 ⚠	1-107-564-11	FILM	0.22MF	20%	300V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C636 ⚠	1-164-503-61	CERAMIC	0.0022MF	20%	400V
C639	1-136-165-00	FILM	0.1MF	5%	50V
C640	1-106-220-00	MYLAR	0.1MF	10%	100V
C647	1-162-116-00	CERAMIC	680PF	10%	2KV
C800	1-137-437-11	FILM	0.0056MF	5%	50V
C801	1-136-153-00	FILM	0.01MF	5%	50V
C804	1-136-165-00	FILM	0.1MF	5%	50V
C805	1-106-395-00	MYLAR	0.15MF	10%	200V
C806	1-108-704-11	MYLAR	0.1MF	10%	200V
C807	1-136-853-11	FILM	0.56MF	5%	200V
C810	1-126-772-11	ELECT	1MF	20%	250V
C811	1-102-212-00	CERAMIC	820PF	10%	500V
C812	1-136-540-11	FILM	0.82MF	5%	200V
C813	1-129-722-00	FILM	0.047MF	10%	630V
C814	1-136-565-11	FILM	0.015MF	3%	1.4KV
C815	1-136-562-11	MYLAR	0.0082MF	10%	400V
C816	1-161-754-00	CERAMIC	0.001MF	10%	2KV
C817	1-161-754-00	CERAMIC	0.001MF	10%	2KV
C818	1-162-134-11	CERAMIC	470PF	10%	2KV
C819	1-136-208-11	FILM	0.068MF	10%	250V
C820	1-102-114-00	CERAMIC	470PF	10%	50V
C821	1-162-114-00	CERAMIC	0.0047MF		2KV
C822	1-107-662-11	ELECT	22MF	20%	250V
C824	1-123-024-21	ELECT	33MF		160V
C829	1-124-902-00	ELECT	0.47MF	20%	50V
C830	1-124-902-00	ELECT	0.47MF	20%	50V
C832	1-124-903-11	ELECT	1MF	20%	50V
C834	1-124-916-11	ELECT	22MF	20%	25V
C835	1-162-318-11	CERAMIC	0.001MF	10%	500V
C836	1-162-117-00	CERAMIC	100PF	10%	500V
C838	1-102-228-00	CERAMIC	470PF	10%	500V
C839	1-136-189-00	FILM	0.1MF	10%	250V
C900	1-101-810-00	CERAMIC	100PF	5%	500V
C901	1-101-810-00	CERAMIC	100PF	5%	500V
C902	1-137-372-11	FILM	0.022MF	5%	50V
C903	1-137-372-11	FILM	0.022MF	5%	50V
C904	1-124-910-11	ELECT	47MF	20%	50V
C905	1-124-907-11	ELECT	10MF	20%	50V
C906	1-126-967-11	ELECT	47MF	20%	50V
C907	1-124-903-11	ELECT	1MF	20%	50V
C908	1-126-967-11	ELECT	47MF	20%	50V
C909	1-124-903-11	ELECT	1MF	20%	50V
C910	1-137-393-11	FILM	0.01MF	5%	100V
C1200	1-136-165-00	FILM	0.1MF	5%	50V
C1201	1-136-165-00	FILM	0.1MF	5%	50V
C1202	1-136-165-00	FILM	0.1MF	5%	50V
C1203	1-136-169-00	FILM	0.22MF	5%	50V
C1204	1-136-169-00	FILM	0.22MF	5%	50V
C1205	1-101-005-00	CERAMIC	0.022MF		50V
C1206	1-101-005-00	CERAMIC	0.022MF		50V
C1207	1-126-933-11	ELECT	100MF	20%	16V
C1208	1-124-927-11	ELECT	4.7MF	20%	50V
C1209	1-124-927-11	ELECT	4.7MF	20%	50V
C1210	1-124-925-11	ELECT	2.2MF	20%	50V
C1211	1-124-925-11	ELECT	2.2MF	20%	50V
C1214	1-126-933-11	ELECT	100MF	20%	16V
C1215	1-136-173-00	FILM	0.47MF	5%	50V
C1216	1-137-366-11	FILM	0.0022MF	5%	50V
C1217	1-137-366-11	FILM	0.0022MF	5%	50V
C1218	1-126-934-11	ELECT	220MF	20%	16V

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< CONNECTOR >

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN600	1-508-786-11	PIN, CONNECTOR (5MM PITCH) 2P	
CN601 ⚠	1-508-765-11	PIN, CONNECTOR (5MM PITCH) 3P	
CN603 ⚠	*1-580-844-11	PIN, CONNECTOR (POWER)	
CN800	*1-580-798-11	CONNECTOR PIN (DY) 6P	
CN801	1-573-296-11	CONNECTOR, BOARD TO BOARD 10P	
CN803	1-695-915-11	TAB (CONTACT)	
CN804	1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P	
CN807	1-568-878-51	PIN, CONNECTOR 3P	
CN900	1-568-678-11	TERMINAL BLOCK, S 3P	
CN901	*1-564-520-11	PLUG, CONNECTOR 5P	
CN902	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P	
CN1200	*1-568-879-11	PIN, CONNECTOR 4P	
CN1201	*1-568-878-51	PIN, CONNECTOR 3P	

< DIODE >

REF.NO.	PART NO.	DESCRIPTION	REMARK
D500	8-719-109-85	DIODE RD5.1ESB2	
D502	8-719-979-85	DIODE EGP20G	
D503	8-719-979-85	DIODE EGP20G	
D504	8-719-901-33	DIODE 1SS133	
D505	8-719-982-03	DIODE MTZJ-3.6A	
D506	8-719-901-33	DIODE 1SS133	
D507	8-719-109-85	DIODE RD5.1ESB2	
D600	8-719-510-53	DIODE D4SB60L	
D601	8-719-046-77	DIODE EM1-V1	
D603	8-719-109-97	DIODE RD6.8ESB2	
D604	8-719-046-75	DIODE EU-1-V1	
D605	8-719-312-61	DIODE EU-1Z	
D606	8-719-312-61	DIODE EU-1Z	
D607	8-719-046-78	DIODE EG-1Z-V1	
D608	8-719-046-75	DIODE EU-1-V1	
D609	8-719-301-64	DIODE RU4DS	
D610	8-719-046-74	DIODE AU-01Z-V1	
D611	8-719-302-43	DIODE EL1Z	
D612	8-719-053-64	DIODE RU3YX-LF-C4	
D613	8-719-045-48	DIODE FML-G12S	
D614	8-719-045-48	DIODE FML-G12S	
D615	8-719-046-75	DIODE EU-1-V1	
D616	8-719-110-03	DIODE RD7.5ESB2	
D617	8-719-901-33	DIODE 1SS133	
D618	8-719-901-33	DIODE 1SS133	
D619	8-719-901-33	DIODE 1SS133	
D620	8-719-901-33	DIODE 1SS133	
D622	8-719-923-60	DIODE MTZJ-9.1A	
D625	8-719-901-33	DIODE 1SS133	
D626	8-719-046-74	DIODE AU-01Z-V1	
D800	8-719-901-33	DIODE 1SS133	
D801	8-719-901-33	DIODE 1SS133	
D802	8-719-901-33	DIODE 1SS133	
D803	8-719-908-03	DIODE GP08D	
D807	8-719-302-43	DIODE EL1Z	
D808	8-719-908-03	DIODE GP08D	
D809	8-719-018-82	DIODE RGP02-20EL-6394	
D810	8-719-302-43	DIODE EL1Z	
D812	8-719-038-49	DIODE FMS-3FU-LF027-103	
D815	8-719-908-03	DIODE GP08D	
D817	8-719-109-89	DIODE RD5.6ESB2	
D901	8-719-030-11	DIODE SLA-570KT3F	
D902	8-719-923-60	DIODE MTZJ-9.1A	
D903	8-719-923-60	DIODE MTZJ-9.1A	
D904	8-719-923-60	DIODE MTZJ-9.1A	
D905	8-719-923-60	DIODE MTZJ-9.1A	
D906	8-719-923-60	DIODE MTZJ-9.1A	
D1201	8-719-109-72	DIODE RD3.9ESB2	

< FUSE >

REF.NO.	PART NO.	DESCRIPTION	REMARK
F601 ⚠	1-576-232-21	FUSE (H.B.C.) 5A/250V	
	1-533-230-11	HOLDER, FUSE ; F601	

< FERRITE BEAD >

REF.NO.	PART NO.	DESCRIPTION	REMARK
FB600	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB601	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB602	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB604	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB605	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB606	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB607	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	

< IC >

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC500	8-759-192-71	IC STV9379	
IC600	8-759-183-88	IC STR-S6708	
IC601 ⚠	8-749-924-92	IC TLP721-GR	
IC602	8-749-920-61	IC SE-135N	
IC603	8-759-144-82	IC µPC2405HF	
IC604	8-759-250-63	IC TL750L05CLPR	
IC605	8-759-231-58	IC TA7812S	
IC606	8-759-267-25	IC LM2940T-9.0	
IC800	8-759-103-93	IC µPC393C	
IC900	8-741-790-11	IC SBX1790-51	
IC1200	8-759-250-68	IC TDA7264	
IC1201	8-759-502-21	IC TDA2822M	

< JACK SOCKET >

REF.NO.	PART NO.	DESCRIPTION	REMARK
J900	1-764-606-11	JACK	

< COIL >

REF.NO.	PART NO.	DESCRIPTION	REMARK
L502	1-412-519-11	INDUCTOR 3.3UH	
L503	1-412-519-11	INDUCTOR 3.3UH	
L609	1-412-533-21	INDUCTOR 47UH	
L611	1-412-527-11	INDUCTOR 15UH	
L612	1-414-415-11	INDUCTOR, WIDE BAND	
L613	1-414-415-11	INDUCTOR, WIDE BAND	
L800	1-459-087-00	COIL,HCC DUST CORE 3.9MMH	
L801	1-459-087-00	COIL,HCC DUST CORE 3.9MMH	
L802	1-459-104-00	COIL, WITH CORE	
L803	1-420-872-00	COIL, AIR CORE	
L804	1-459-907-11	COIL, HORIZONTAL LINEARITY	
L805	1-406-675-11	COIL, CHOKE 4.7MMH	
L809	1-412-533-21	INDUCTOR 47UH	
L900	1-408-409-00	INDUCTOR 10UH	
L901	1-408-409-00	INDUCTOR 10UH	
L902	1-408-409-00	INDUCTOR 10UH	
L903	1-408-409-00	INDUCTOR 10UH	

< IC LINK >

REF.NO.	PART NO.	DESCRIPTION	REMARK
PS600 ⚠	1-532-686-91	LINK, IC 2.7A (ICP-F75)	
PS601 ⚠	1-532-686-91	LINK, IC 2.7A (ICP-F75)	
PS602 ⚠	1-532-686-91	LINK, IC 2.7A (ICP-F75)	
PS603 ⚠	1-532-686-91	LINK, IC 2.7A (ICP-F75)	

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REF.NO.	PART NO.	DESCRIPTION				REMARK
PS801 ⚠	1-532-605-91	LINK, IC 0.4A (ICP-F10)				
		< TRANSISTOR >				
Q501	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q502	8-729-173-38	TRANSISTOR 2SA733-K				
Q503	8-729-900-89	TRANSISTOR DTC144ES				
Q601	8-729-025-04	TRANSISTOR 2SC3852A				
Q602	8-729-320-28	TRANSISTOR 2SA1667				
Q603	8-729-027-08	TRANSISTOR 2SC2389S-R				
Q604	8-729-024-35	TRANSISTOR 2SC2808S-R				
Q605	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q606	8-729-900-65	TRANSISTOR DTA144ES				
Q607	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q800	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q801	8-729-017-06	TRANSISTOR 2SC4793				
Q802	8-729-016-32	TRANSISTOR 2SC4927-01				
Q803	8-729-119-80	TRANSISTOR 2SC2688-LK				
Q805	8-729-900-89	TRANSISTOR DTC144ES				
Q1200	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1201	8-729-900-74	TRANSISTOR DTC143TS				
Q1202	8-729-900-80	TRANSISTOR DTC114ES				
Q1203	8-729-900-74	TRANSISTOR DTC143TS				
Q1204	8-729-900-74	TRANSISTOR DTC143TS				
		< RESISTOR >				
R500	1-215-457-00	METAL	33K	1%	1/4W	
R502	1-249-421-11	CARBON	2.2K	5%	1/4W	
R503	1-249-429-11	CARBON	10K	5%	1/4W	
R504	1-215-461-00	METAL	47K	1%	1/4W	
R505	1-249-382-11	CARBON	1.2	5%	1/4W	F
R506	1-215-443-00	METAL	8.2K	1%	1/4W	
R507	1-215-888-00	METAL OXIDE	220	5%	2W	F
R508	1-216-371-00	METAL OXIDE	1.5	5%	2W	F
R509	1-249-443-11	CARBON	0.47	5%	1/4W	F
R510	1-249-443-11	CARBON	0.47	5%	1/4W	F
R517	1-215-427-00	METAL	1.8K	1%	1/4W	
R518	1-215-427-00	METAL	1.8K	1%	1/4W	
R520	1-215-457-00	METAL	33K	1%	1/4W	
R521	1-215-461-00	METAL	47K	1%	1/4W	
R522	1-247-863-91	CARBON	22K	5%	1/4W	
R523	1-247-863-91	CARBON	22K	5%	1/4W	
R524	1-249-425-11	CARBON	4.7K	5%	1/4W	
R525	1-249-425-11	CARBON	4.7K	5%	1/4W	
R526	1-249-421-11	CARBON	2.2K	5%	1/4W	
R527	1-215-438-00	METAL	5.1K	1%	1/4W	
R528	1-247-901-11	CARBON	820K	5%	1/4W	
R529	1-247-895-00	CARBON	470K	5%	1/4W	
R600	1-216-490-11	METAL OXIDE	39K	5%	3W	F
R601	1-249-417-11	CARBON	1K	5%	1/4W	
R603	1-215-875-11	METAL OXIDE	10K	5%	1W	F
R604	1-249-420-11	CARBON	1.8K	5%	1/4W	
R605	1-216-362-11	METAL OXIDE	0.27	5%	2W	F
R607	1-216-421-11	METAL OXIDE	12	5%	1W	F
R608	1-216-365-00	METAL OXIDE	0.47	5%	2W	F
R610	1-215-427-00	METAL	1.8K	1%	1/4W	
R611	1-215-859-00	METAL OXIDE	22	5%	1W	F
R612	1-249-428-11	CARBON	8.2K	5%	1/4W	
R613	1-249-417-11	CARBON	1K	5%	1/4W	
R614	1-215-877-11	METAL OXIDE	22K	5%	1W	F
R615	1-249-435-11	CARBON	33K	5%	1/4W	
R616	1-215-479-00	METAL	270K	1%	1/4W	
R617	1-215-901-00	METAL OXIDE	33K	5%	2W	F
R618	1-247-863-91	CARBON	22K	5%	1/4W	
R619	1-216-425-11	METAL OXIDE	56	5%	1W	F
R620	1-247-895-00	CARBON	470K	5%	1/4W	
R621	1-216-425-11	METAL OXIDE	56	5%	1W	F
R622	1-249-437-11	CARBON	47K	5%	1/4W	
R623	1-249-429-11	CARBON	10K	5%	1/4W	
R624	1-249-405-11	CARBON	100	5%	1/4W	F
R625	1-249-434-11	CARBON	27K	5%	1/4W	
R626	1-249-430-11	CARBON	12K	5%	1/4W	
R628	1-249-415-11	CARBON	680	5%	1/4W	F
R629 ⚠	1-244-845-91	CARBON	1M	5%	1/2W	
R630 ⚠	1-218-265-21	METAL	8.2M	5%	1W	
R631 ⚠	1-205-949-11	WIREWOUND	1.8	5%	10W	
R632	1-247-807-31	CARBON	100	5%	1/4W	
R633	1-247-807-31	CARBON	100	5%	1/4W	
R634	1-249-397-11	CARBON	22	5%	1/4W	F
R635	1-249-437-11	CARBON	47K	5%	1/4W	
R636	1-249-417-11	CARBON	1K	5%	1/4W	
R637	1-249-409-11	CARBON	220	5%	1/4W	
R638	1-247-863-91	CARBON	22K	5%	1/4W	
R639	1-215-427-00	METAL	1.8K	1%	1/4W	
R640	1-216-381-11	METAL OXIDE	0.22	5%	3W	F
R641	1-216-381-11	METAL OXIDE	0.22	5%	3W	F
R642 ⚠	1-205-949-11	WIREWOUND	1.8	5%	10W	
R644	1-247-807-31	CARBON	100	5%	1/4W	
R645	1-249-422-11	CARBON	2.7K	5%	1/4W	
R646	1-249-377-11	CARBON	0.47	5%	1/4W	F
R647	1-202-933-61	FUSIBLE	0.1	10%	1/2W	F
R648	1-216-397-11	METAL OXIDE	4.7	5%	3W	F
R800	1-249-421-11	CARBON	2.2K	5%	1/4W	
R801	1-249-429-11	CARBON	10K	5%	1/4W	
R802	1-249-431-11	CARBON	15K	5%	1/4W	
R803	1-249-423-11	CARBON	3.3K	5%	1/4W	
R804	1-249-430-11	CARBON	12K	5%	1/4W	
R805	1-249-425-11	CARBON	4.7K	5%	1/4W	
R812	1-249-421-11	CARBON	2.2K	5%	1/4W	
R813	1-215-867-00	METAL OXIDE	470	5%	1W	F
R814	1-249-411-11	CARBON	330	5%	1/4W	
R816	1-216-481-11	METAL OXIDE	1.2K	5%	3W	F
R817	1-216-481-11	METAL OXIDE	1.2K	5%	3W	F
R818	1-215-882-00	METAL OXIDE	22	5%	2W	F
R819	1-216-345-11	METAL OXIDE	0.47	5%	1W	F
R820	1-249-403-11	CARBON	68	5%	1/4W	
R821	1-215-909-11	METAL OXIDE	47	5%	3W	F
R822	1-215-868-00	METAL OXIDE	680	5%	1W	F
R824	1-249-420-11	CARBON	1.8K	5%	1/4W	
R826	1-247-752-11	CARBON	1K	5%	1/2W	
R827	1-249-425-11	CARBON	4.7K	5%	1/4W	
R828	1-249-425-11	CARBON	4.7K	5%	1/4W	
R829	1-249-493-11	CARBON	56K	5%	1/2W	
R830	1-217-778-11	FUSIBLE	1K	5%	1W	F
R833	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R836	1-249-439-11	CARBON	68K	5%	1/4W	
R837	1-249-429-11	CARBON	10K	5%	1/4W	
R840	1-247-807-31	CARBON	100	5%	1/4W	
R841	1-249-418-11	CARBON	1.2K	5%	1/4W	
R842	1-249-435-11	CARBON	33K	5%	1/4W	
R843	1-247-903-00	CARBON	1M	5%	1/4W	

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D **VM**

REF.NO.	PART NO.	DESCRIPTION	REMARK
R846	1-247-893-11	CARBON 390K 5% 1/4W	
R847	1-247-897-11	CARBON 560K 5% 1/4W	
R848	1-249-438-11	CARBON 56K 5% 1/4W	
R849	1-249-429-11	CARBON 10K 5% 1/4W	
R850	1-249-425-11	CARBON 4.7K 5% 1/4W	
R851	1-215-898-11	METAL OXIDE 10K 5% 2W	F
R852	1-249-432-11	CARBON 18K 5% 1/4W	
R900	1-249-409-11	CARBON 220 5% 1/4W	
R901	1-202-539-00	SOLID 39 10% 1/2W	
R902	1-202-539-00	SOLID 39 10% 1/2W	
R905	1-247-804-11	CARBON 75 5% 1/4W	
R906	1-247-804-11	CARBON 75 5% 1/4W	
R907	1-247-804-11	CARBON 75 5% 1/4W	
R908	1-249-401-11	CARBON 47 5% 1/4W	
R909	1-249-437-11	CARBON 47K 5% 1/4W	
R910	1-249-437-11	CARBON 47K 5% 1/4W	
R911	1-249-423-11	CARBON 3.3K 5% 1/4W	
R912	1-249-429-11	CARBON 10K 5% 1/4W	
R913	1-249-423-11	CARBON 3.3K 5% 1/4W	
R914	1-249-429-11	CARBON 10K 5% 1/4W	
R915	1-247-791-91	CARBON 22 5% 1/4W	
R916	1-247-791-91	CARBON 22 5% 1/4W	
R917	1-247-791-91	CARBON 22 5% 1/4W	
R1200	1-249-425-11	CARBON 4.7K 5% 1/4W	
R1201	1-249-434-11	CARBON 27K 5% 1/4W	
R1202	1-249-393-11	CARBON 10 5% 1/4W	F
R1203	1-249-421-11	CARBON 2.2K 5% 1/4W	
R1204	1-249-421-11	CARBON 2.2K 5% 1/4W	
R1205	1-249-428-11	CARBON 8.2K 5% 1/4W	
R1206	1-249-428-11	CARBON 8.2K 5% 1/4W	
R1208	1-212-849-00	FUSIBLE 4.7 5% 1/4W	F
R1209	1-212-849-00	FUSIBLE 4.7 5% 1/4W	F
R1211	1-249-424-11	CARBON 3.9K 5% 1/4W	
R1212	1-249-424-11	CARBON 3.9K 5% 1/4W	
R1213	1-249-421-11	CARBON 2.2K 5% 1/4W	
R1216	1-249-413-11	CARBON 470 5% 1/4W	
R1217	1-249-425-11	CARBON 4.7K 5% 1/4W	
		< VARIABLE RESISTOR >	
RV301	1-238-552-11	RES, ADJ, CARBON 470K	
		< RELAY >	
RY600	⚠ 1-755-018-11	RELAY	
		< SWITCH >	
S601	⚠ 1-571-433-12	SWITCH, PUSH (AC POWER)	
S900	1-692-979-11	SWITCH, TACTILE	
S901	1-692-979-11	SWITCH, TACTILE	
S902	1-692-979-11	SWITCH, TACTILE	
		< SPARK GAP >	
SG801	1-519-422-11	GAP, SPARK	
		< TRANSFORMER >	
LF600	⚠ 1-421-776-21	LFT	
LF601	⚠ 1-421-776-21	LFT	
T601	⚠ 1-426-805-11	SRT	
T800	1-424-545-11	TRANSFORMER, FERRITE (PMT)	
T803	⚠ 1-453-169-11	TRANSFORMER ASSY, FLYBACK (UX-1604A2)	

REF.NO.	PART NO.	DESCRIPTION	REMARK
T804	1-437-090-00	HDT	
		< THERMISTOR >	
THP600	⚠ 1-809-827-11	THERMISTOR, POSITIVE	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
	*A-1644-052-A	VM BOARD, COMPLETE ******************	
	4-382-854-11	SCREW (M3X10), P, SW (+)	
		< CAPACITOR >	
C1701	1-124-119-00	ELECT 330MF 20% 16V	
C1702	1-101-880-00	CERAMIC 47PF 5% 50V	
C1703	1-102-115-00	CERAMIC 560PF 10% 50V	
C1704	1-161-830-00	CERAMIC 0.0047MF 500V	
C1705	1-124-120-11	ELECT 220MF 20% 16V	
C1706	1-123-935-00	ELECT 33MF 20% 160V	
C1707	1-124-907-11	ELECT 10MF 20% 50V	
C1708	1-101-006-00	CERAMIC 0.047MF 50V	
C1709	1-108-704-11	MYLAR 0.1MF 10% 200V	
C1710	1-136-207-11	FILM 0.047MF 10% 250V	
C1711	1-162-318-11	CERAMIC 0.001MF 10% 500V	
C1712	1-107-667-11	ELECT 2.2MF 20% 160V	
C1713	1-162-318-11	CERAMIC 0.001MF 10% 500V	
C1714	1-136-207-11	FILM 0.047MF 10% 250V	
C1716	1-124-907-11	ELECT 10MF 20% 50V	
C1718	1-124-120-11	ELECT 220MF 20% 16V	
C1719	1-124-927-11	ELECT 4.7MF 20% 50V	
		< CONNECTOR >	
CN1819	*1-568-882-51	PIN, CONNECTOR 7P	
		< DIODE >	
D1701	8-719-901-33	DIODE 1SS133	
D1702	8-719-901-33	DIODE 1SS133	
D1703	8-719-901-33	DIODE 1SS133	
D1704	8-719-982-37	DIODE MTZJ-39C	
D1705	8-719-982-37	DIODE MTZJ-39C	
D1706	8-719-901-33	DIODE 1SS133	
D1707	8-719-901-33	DIODE 1SS133	
		< COIL >	
L1701	1-408-417-00	INDUCTOR 47UH	
L1702	1-408-418-00	INDUCTOR 56UH	
		< TRANSISTOR >	
Q1701	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1702	8-729-173-38	TRANSISTOR 2SA733-K	
Q1703	8-729-017-05	TRANSISTOR 2SA1837	
Q1704	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1705	8-729-017-06	TRANSISTOR 2SC4793	
Q1706	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1707	8-729-140-96	TRANSISTOR 2SD774-34	
Q1708	8-729-901-59	TRANSISTOR BF199	
Q1709	8-729-255-12	TRANSISTOR 2SC2551-O	
		< RESISTOR >	
R1701	1-247-807-31	CARBON 100 5% 1/4W	

VM

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and marked ⚠ are critical for safety. Replace only with the part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1702	1-249-420-11	CARBON	1.8K	5%	1/4W	
R1703	1-247-807-31	CARBON	100	5%	1/4W	
R1704	1-249-420-11	CARBON	1.8K	5%	1/4W	
R1705	1-247-736-11	CARBON	56	5%	1/2W	F
R1706	1-249-414-11	CARBON	560	5%	1/4W	F
R1707	1-249-412-11	CARBON	390	5%	1/4W	
R1709	1-249-416-11	CARBON	820	5%	1/4W	
R1710	1-249-385-11	CARBON	2.2	5%	1/4W	F
R1711	1-249-432-11	CARBON	18K	5%	1/4W	
R1712	1-249-435-11	CARBON	33K	5%	1/4W	
R1713	1-249-438-11	CARBON	56K	5%	1/4W	
R1714	1-249-429-11	CARBON	10K	5%	1/4W	
R1715	1-216-476-11	METAL OXIDE	180	5%	3W	F
R1716	1-249-417-11	CARBON	1K	5%	1/4W	F
R1717	1-249-432-11	CARBON	18K	5%	1/4W	
R1718	1-249-410-11	CARBON	270	5%	1/4W	
R1719	1-249-419-11	CARBON	1.5K	5%	1/4W	
R1720	1-249-441-11	CARBON	100K	5%	1/4W	
R1721	1-249-414-11	CARBON	560	5%	1/4W	
R1722	1-249-385-11	CARBON	2.2	5%	1/4W	F
R1723	1-249-429-11	CARBON	10K	5%	1/4W	
R1724	1-249-436-11	CARBON	39K	5%	1/4W	
R1725	1-249-417-11	CARBON	1K	5%	1/4W	
R1726	1-249-411-11	CARBON	330	5%	1/4W	
R1727	1-249-402-11	CARBON	56	5%	1/4W	F
R1729	1-216-451-11	METAL OXIDE	120	5%	2W	F
R1731	1-249-420-11	CARBON	1.8K	5%	1/4W	
R1732	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1734	1-249-419-11	CARBON	1.5K	5%	1/4W	

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MISCELLANEOUS
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REF.NO.	PART NO.	DESCRIPTION	REMARK
	⚠ 1-406-807-11	COIL, DEGAUSSING	
	1-452-032-00	MAGNET, DISK; 10MM Ø	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
	⚠ 1-452-509-41	NECK ASSY, PICTURE TUBE (NA-308)	
	⚠ 1-453-169-11	TRANSFORMER ASSY, FLYBACK (UX-1604A2)	
	1-504-146-11	SPEAKER (5X11CM)	
	⚠ 1-571-433-12	SWITCH, PUSH (AC POWER)	
	1-693-185-11	TUNER (UV916H)	
	⚠ 1-751-680-11	CORD, POWER (WITH NOISE FILTER)	
	⚠ 8-451-422-11	DEFLECTION YOKE (Y29GXA)	
V901	⚠ 8-733-841-05	PICTURE TUBE (SD-269) (M68KZT10X)	

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ACCESSORIES AND PACKING MATERIALS
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REF.NO.	PART NO.	DESCRIPTION	REMARK
	4-039-906-11	BAG, PROTECTION	
	4-202-990-01	CUSHION (UPPER) (ASSY)	
	4-202-991-01	INDIVIDUAL CARTON	
	4-202-997-01	CUSHION (LOWER) (ASSY)	
	4-202-989-11	MANUAL, INSTRUCTION (KV-C2901D/C2908D/C2909D) (DUTCH/ENGLISH/GERMAN/GREEK/TURKISH)	
	4-202-989-41	MANUAL, INSTRUCTION (KV-C2901A) (ITALIAN)	
	4-202-989-51	MANUAL, INSTRUCTION (KV-C2903B/C2908B/C2909B) (FRENCH/GERMAN/ITALIAN)	
	4-202-989-71	MANUAL, INSTRUCTION (SET.E) (KV-C2903E/C2908E/C2909E) (DANISH/DUTCH/FINISH/FRENCH/GERMAN/ NORWEGIAN/PORTUGEESE/SPANISH/SWEEDISH)	
	4-202-989-81	MANUAL, INSTRUCTION (SET.G) (KV-C2903E/C2908E/C2909E) (DANISH/DUTCH/FINISH/FRENCH/GERMAN/ NORWEGIAN/PORTUGEESE/SPANISH/SWEEDISH)	
	4-202-989-91	MANUAL, INSTRUCTION (KV-C2901K/C2909K) (BULGARIAN/CZECHOSLOVAKIAN/ENGLISH/ HUNGARIAN/POLISH/RUSSIAN)	

REMOTE COMMANDER
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REF.NO.	PART NO.	DESCRIPTION	REMARK
	1-467-706-11	COMMANDER, STANDARD TYPE (RM-833)	

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Sony Corporation
Consumer A & V Products Company
TV & Display Products Div.

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